

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: P395628

Luminaire Tested: **I3-FL-80L83050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395628  
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-80L83050-1D-UNV-W2A-W-4 (3000K)  
Description: CORELITE I3, FROSTED TOP COVER  
8000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 3000K/5000K CCT, 80 CRI LEDS, TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6867.5 lumens  
Efficiency: N/A  
Efficacy: 110.4 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

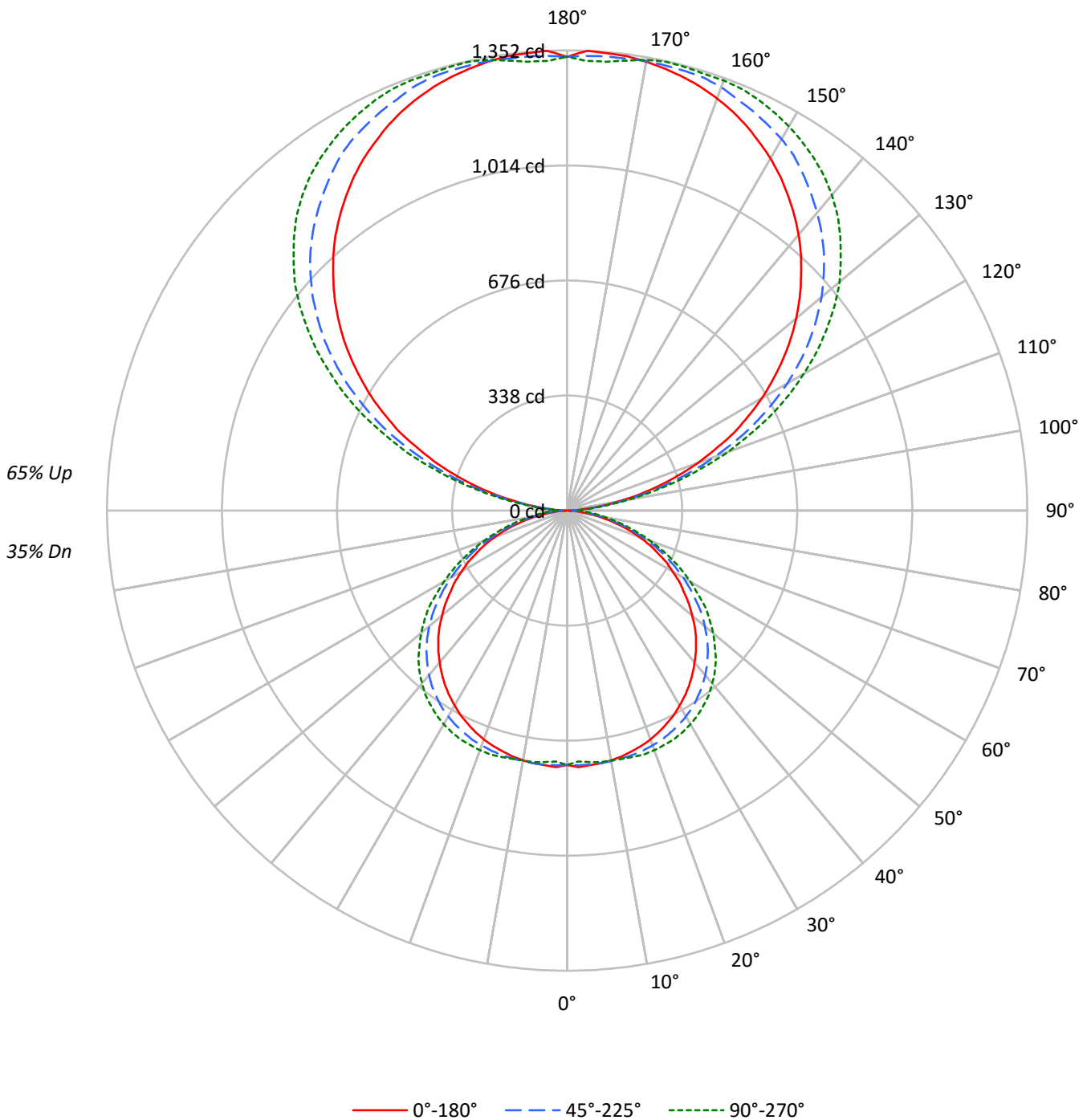
Input Watts (W): 62.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P395628

CATALOG NUMBER: I3-FL-80L83050-1D-UNV-W2A-W-4 (3000K)

### Luminous Intensity Polar Plot





TEST NUMBER: P395628

CATALOG NUMBER: I3-FL-80L83050-1D-UNV-W2A-W-4 (3000K)

**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°	4107	4107	4107
5°	4128	4039	3976
10°	4129	3984	3929
15°	4120	3950	3913
20°	4121	3915	3908
25°	4109	3880	3893
30°	4095	3843	3858
35°	4076	3782	3800
40°	4035	3702	3717
45°	3993	3588	3603
50°	3901	3429	3427
55°	3790	3213	3222
60°	3662	2961	2910
65°	3481	2653	2585
70°	3233	2262	2183
75°	2815	1796	1737
80°	2195	1276	1271
85°	1192	731	835



TEST NUMBER: P395628

CATALOG NUMBER: I3-FL-80L83050-1D-UNV-W2A-W-4 (3000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.2	1.0
10°-20°	209.5	3.1
20°-30°	330.4	4.8
30°-40°	415.3	6.0
40°-50°	446.5	6.5
50°-60°	410.8	6.0
60°-70°	314.7	4.6
70°-80°	179.2	2.6
80°-90°	56.0	0.8
90°-100°	74.8	1.1
100°-110°	325.5	4.7
110°-120°	595.8	8.7
120°-130°	768.0	11.2
130°-140°	817.2	11.9
140°-150°	751.9	10.9
150°-160°	595.7	8.7
160°-170°	377.2	5.5
170°-180°	127.7	1.9
0°-30°	611.2	8.9
0°-40°	1026.5	14.9
0°-60°	1883.9	27.4
0°-90°	2433.7	35.4
90°-120°	996.1	14.5
90°-150°	3333.3	48.5
90°-180°	4434.0	64.6
0°-180°	6867.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	747	747	747	747	747	
5°	751	744	749	745	742	72
15°	732	728	744	749	749	207
25°	691	693	719	736	742	319
35°	626	633	669	691	698	391
45°	536	549	584	609	618	412
55°	420	436	463	487	496	376
65°	292	302	320	335	341	290
75°	154	157	168	178	184	162
85°	28	36	47	60	64	35
90°	2	6	17	24	28	4
95°	51	49	54	62	64	63
105°	275	288	311	330	335	293
115°	541	566	610	642	659	531
125°	773	807	869	912	931	691
135°	972	1004	1068	1112	1135	750
145°	1131	1156	1208	1244	1264	708
155°	1247	1262	1294	1320	1332	575
165°	1318	1318	1337	1346	1348	373
175°	1348	1339	1339	1333	1324	128
180°	1333	1333	1333	1333	1333	



TEST NUMBER: P395628

CATALOG NUMBER: I3-FL-80L83050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	747.2	747.2	747.2	747.2	747.2	747.2	747.2	747.2	747.2	747.2	747.2
2.5°	754.7	752.8	751.0	747.2	747.2	745.4	745.4	745.4	745.4	747.2	749.1
5°	751.0	751.0	749.1	745.4	745.4	743.5	743.5	745.4	743.5	745.4	749.1
7.5°	749.1	749.1	747.2	743.5	743.5	743.5	743.5	743.5	743.5	745.4	749.1
10°	745.4	745.4	741.6	739.7	739.7	739.7	739.7	741.6	741.6	743.5	747.2
12.5°	739.7	737.9	736.0	734.1	734.1	734.1	736.0	737.9	737.9	741.6	745.4
15°	732.2	732.2	730.4	728.5	728.5	728.5	730.4	732.2	734.1	737.9	743.5
17.5°	724.8	724.8	722.9	722.9	722.9	722.9	724.8	726.6	730.4	734.1	739.7
20°	715.4	715.4	713.5	713.5	713.5	715.4	715.4	719.1	722.9	728.5	734.1
22.5°	704.2	704.2	704.2	702.3	704.2	706.0	707.9	711.6	715.4	721.0	728.5
25°	691.0	691.0	691.0	691.0	692.9	692.9	696.7	700.4	704.2	711.6	719.1
27.5°	677.9	677.9	677.9	676.1	679.8	681.7	683.6	689.2	692.9	702.3	709.8
30°	661.1	661.1	661.1	663.0	664.8	666.7	670.4	676.1	679.8	689.2	698.5
32.5°	644.2	644.2	644.2	644.2	649.8	651.7	653.6	659.2	666.7	676.1	685.4
35°	625.5	625.5	625.5	627.4	631.1	633.0	636.7	642.4	649.8	659.2	668.6
37.5°	604.9	606.8	606.8	608.6	612.4	616.1	619.9	625.5	633.0	642.4	651.7
40°	582.4	584.3	584.3	586.2	589.9	593.7	597.4	604.9	612.4	621.8	631.1
42.5°	560.0	561.8	561.8	565.6	569.3	573.1	576.8	584.3	591.8	601.2	608.6
45°	535.6	537.5	537.5	541.2	546.8	548.7	554.3	561.8	569.3	576.8	584.3
47.5°	509.4	511.3	511.3	515.0	520.6	524.4	528.1	535.6	541.2	550.6	558.1
50°	479.4	481.3	483.2	486.9	494.4	498.2	501.9	507.5	515.0	520.6	528.1
52.5°	451.3	451.3	453.2	457.0	462.6	466.3	468.2	473.8	483.2	490.7	498.2
55°	419.5	421.4	423.2	427.0	432.6	436.3	438.2	443.8	449.5	455.1	462.6
57.5°	391.4	391.4	393.3	397.0	402.6	404.5	406.4	410.1	417.6	423.2	428.9
60°	357.7	359.6	361.4	365.2	368.9	372.7	372.7	378.3	383.9	389.5	393.3
62.5°	327.7	327.7	329.6	333.3	335.2	339.0	339.0	344.6	348.3	353.9	357.7
65°	292.1	294.0	295.9	297.8	301.5	301.5	303.4	307.1	310.9	314.6	320.2
67.5°	260.3	260.3	262.2	264.1	265.9	265.9	267.8	271.5	275.3	279.0	282.8
70°	224.7	226.6	226.6	226.6	228.5	230.3	232.2	234.1	237.8	239.7	243.5
72.5°	189.1	189.1	191.0	191.0	192.9	194.8	196.6	198.5	200.4	204.1	206.0
75°	153.6	153.6	155.4	155.4	157.3	157.3	157.3	161.1	162.9	166.7	168.5
77.5°	118.0	119.9	119.9	119.9	121.7	123.6	123.6	125.5	129.2	131.1	133.0
80°	86.1	86.1	86.1	86.1	88.0	89.9	91.8	91.8	95.5	99.3	101.1
82.5°	54.3	54.3	56.2	58.1	58.1	59.9	61.8	63.7	67.4	69.3	71.2
85°	28.1	28.1	30.0	31.8	33.7	35.6	35.6	37.5	41.2	44.9	46.8
87.5°	9.4	11.2	11.2	13.1	15.0	16.9	18.7	20.6	24.3	28.1	30.0
90°	1.9	1.9	1.9	3.7	5.6	5.6	7.5	9.4	11.2	13.1	16.9
92.5°	16.9	16.9	15.0	16.9	16.9	16.9	16.9	18.7	20.6	20.6	24.3
95°	50.6	48.7	48.7	48.7	48.7	48.7	48.7	50.6	52.4	52.4	54.3
97.5°	97.4	97.4	95.5	95.5	97.4	97.4	97.4	99.3	103.0	101.1	104.9
100°	151.7	151.7	149.8	151.7	153.6	155.4	159.2	159.2	162.9	162.9	168.5
102.5°	213.5	213.5	211.6	215.4	217.2	221.0	221.0	224.7	230.3	230.3	237.8
105°	275.3	277.2	277.2	280.9	284.7	288.4	288.4	294.0	301.5	301.5	310.9
107.5°	342.7	344.6	344.6	348.3	352.1	355.8	357.7	365.2	372.7	374.5	385.8
110°	408.3	410.1	412.0	415.7	419.5	425.1	428.9	436.3	445.7	449.5	458.8



TEST NUMBER: P395628

CATALOG NUMBER: I3-FL-80L83050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	470.1	477.6	479.4	485.0	490.7	496.3	500.0	509.4	520.6	526.2	537.5
115°	541.2	545.0	546.8	552.5	560.0	565.6	569.3	578.7	589.9	597.4	610.5
117.5°	599.3	608.6	610.5	616.1	623.6	629.2	633.0	644.2	657.3	666.7	679.8
120°	661.1	668.6	676.1	679.8	685.4	692.9	696.7	707.9	722.9	732.2	747.2
122.5°	717.3	724.8	732.2	737.9	745.4	749.1	754.7	767.8	782.8	794.0	809.0
125°	773.4	782.8	788.4	794.0	803.4	807.2	812.8	825.9	840.9	854.0	869.0
127.5°	827.8	833.4	842.7	846.5	855.8	859.6	865.2	880.2	895.2	908.3	923.3
130°	878.3	885.8	893.3	895.2	906.4	912.0	917.6	930.8	947.6	960.7	975.7
132.5°	927.0	930.8	940.1	945.7	955.1	960.7	966.3	977.6	994.4	1007.5	1022.5
135°	972.0	975.7	986.9	992.6	998.2	1003.8	1011.3	1022.5	1039.4	1052.5	1067.5
137.5°	1016.9	1020.6	1031.9	1037.5	1041.2	1046.9	1052.5	1063.7	1080.6	1093.7	1106.8
140°	1058.1	1061.8	1069.3	1076.8	1080.6	1084.3	1089.9	1101.2	1116.2	1129.3	1142.4
142.5°	1095.6	1099.3	1106.8	1114.3	1119.9	1119.9	1125.5	1134.9	1151.7	1164.8	1176.1
145°	1131.1	1133.0	1140.5	1148.0	1155.5	1155.5	1157.4	1166.7	1181.7	1196.7	1207.9
147.5°	1164.8	1166.7	1172.3	1179.8	1185.4	1187.3	1191.1	1194.8	1209.8	1224.8	1237.9
150°	1194.8	1196.7	1200.4	1207.9	1211.7	1215.4	1219.2	1221.0	1232.3	1245.4	1260.4
152.5°	1221.0	1222.9	1226.6	1232.3	1236.0	1239.8	1243.5	1249.1	1254.7	1267.8	1277.2
155°	1247.2	1249.1	1251.0	1256.6	1260.4	1262.2	1264.1	1271.6	1277.2	1284.7	1294.1
157.5°	1269.7	1269.7	1271.6	1275.3	1279.1	1279.1	1281.0	1288.4	1294.1	1301.6	1307.2
160°	1288.4	1288.4	1290.3	1294.1	1294.1	1295.9	1297.8	1303.4	1307.2	1316.5	1324.0
162.5°	1305.3	1303.4	1305.3	1307.2	1307.2	1307.2	1309.0	1312.8	1318.4	1325.9	1333.4
165°	1318.4	1318.4	1318.4	1320.3	1320.3	1318.4	1318.4	1322.2	1325.9	1331.5	1337.1
167.5°	1329.7	1329.7	1327.8	1329.7	1327.8	1327.8	1325.9	1327.8	1329.7	1335.3	1339.0
170°	1339.0	1337.1	1337.1	1337.1	1335.3	1333.4	1333.4	1333.4	1333.4	1337.1	1340.9
172.5°	1346.5	1344.6	1342.8	1342.8	1339.0	1337.1	1337.1	1335.3	1335.3	1337.1	1339.0
175°	1348.4	1346.5	1344.6	1344.6	1340.9	1339.0	1337.1	1337.1	1335.3	1337.1	1339.0
177.5°	1352.1	1350.3	1346.5	1346.5	1342.8	1339.0	1339.0	1337.1	1335.3	1337.1	1337.1
180°	1333.4	1333.4	1333.4	1333.4	1333.4	1333.4	1333.4	1333.4	1333.4	1333.4	1333.4



TEST NUMBER: P395628

CATALOG NUMBER: I3-FL-80L83050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	747.2	747.2	747.2	747.2	747.2	747.2	747.2	747.2	747.2	747.2
2.5°	751.0	751.0	749.1	747.2	747.2	745.4	743.5	741.6	739.7	737.9
5°	751.0	749.1	747.2	747.2	745.4	745.4	745.4	743.5	741.6	741.6
7.5°	751.0	751.0	749.1	747.2	747.2	747.2	747.2	747.2	745.4	745.4
10°	751.0	749.1	749.1	749.1	747.2	749.1	749.1	747.2	747.2	745.4
12.5°	749.1	749.1	749.1	749.1	749.1	749.1	749.1	749.1	749.1	747.2
15°	745.4	747.2	747.2	749.1	749.1	749.1	751.0	751.0	749.1	749.1
17.5°	743.5	745.4	747.2	749.1	749.1	749.1	751.0	751.0	751.0	751.0
20°	739.7	741.6	743.5	745.4	745.4	747.2	747.2	749.1	749.1	749.1
22.5°	732.2	734.1	737.9	739.7	741.6	743.5	745.4	745.4	745.4	745.4
25°	724.8	728.5	730.4	734.1	736.0	737.9	739.7	739.7	739.7	741.6
27.5°	715.4	719.1	724.8	726.6	728.5	730.4	732.2	734.1	734.1	734.1
30°	704.2	709.8	713.5	717.3	719.1	721.0	722.9	722.9	724.8	724.8
32.5°	691.0	696.7	700.4	704.2	706.0	707.9	711.6	711.6	713.5	713.5
35°	674.2	679.8	685.4	689.2	691.0	692.9	696.7	698.5	698.5	698.5
37.5°	657.3	663.0	668.6	674.2	676.1	677.9	681.7	681.7	683.6	683.6
40°	636.7	642.4	648.0	653.6	653.6	657.3	659.2	661.1	663.0	663.0
42.5°	616.1	621.8	625.5	631.1	633.0	634.9	636.7	640.5	640.5	642.4
45°	591.8	597.4	601.2	606.8	608.6	610.5	614.3	616.1	618.0	618.0
47.5°	565.6	569.3	573.1	578.7	582.4	584.3	586.2	588.0	589.9	588.0
50°	535.6	539.4	545.0	550.6	552.5	554.3	558.1	558.1	560.0	560.0
52.5°	503.8	509.4	513.1	518.8	520.6	522.5	526.2	526.2	528.1	528.1
55°	468.2	471.9	475.7	485.0	486.9	488.8	492.5	492.5	494.4	496.3
57.5°	434.5	436.3	442.0	445.7	449.5	449.5	451.3	453.2	455.1	455.1
60°	398.9	400.8	404.5	410.1	410.1	412.0	415.7	415.7	417.6	417.6
62.5°	361.4	365.2	368.9	374.5	372.7	374.5	378.3	378.3	380.2	380.2
65°	324.0	325.9	329.6	333.3	335.2	335.2	337.1	339.0	340.8	340.8
67.5°	284.7	288.4	290.3	295.9	294.0	295.9	297.8	297.8	299.6	299.6
70°	247.2	249.1	252.8	254.7	254.7	256.6	258.4	258.4	258.4	260.3
72.5°	209.7	211.6	213.5	215.4	215.4	217.2	219.1	219.1	221.0	221.0
75°	170.4	174.2	176.0	179.8	177.9	179.8	183.5	183.5	183.5	183.5
77.5°	136.7	138.6	142.3	144.2	144.2	144.2	147.9	146.1	147.9	147.9
80°	103.0	104.9	108.6	110.5	110.5	112.4	114.2	114.2	114.2	116.1
82.5°	73.0	76.8	80.5	82.4	82.4	84.3	86.1	86.1	88.0	88.0
85°	50.6	54.3	58.1	58.1	59.9	61.8	63.7	63.7	63.7	63.7
87.5°	33.7	35.6	37.5	39.3	41.2	41.2	43.1	43.1	44.9	44.9
90°	18.7	20.6	22.5	24.3	24.3	26.2	26.2	28.1	28.1	28.1
92.5°	26.2	26.2	28.1	30.0	30.0	30.0	30.0	31.8	31.8	31.8
95°	56.2	58.1	58.1	61.8	61.8	61.8	63.7	63.7	63.7	63.7
97.5°	108.6	108.6	108.6	112.4	112.4	112.4	114.2	114.2	114.2	116.1
100°	170.4	172.3	172.3	177.9	176.0	179.8	179.8	179.8	179.8	181.7
102.5°	239.7	243.5	245.3	250.9	250.9	250.9	254.7	252.8	254.7	254.7
105°	314.6	318.4	320.2	325.9	329.6	329.6	333.3	331.5	333.3	335.2
107.5°	389.5	395.1	398.9	404.5	408.3	410.1	410.1	412.0	413.9	415.7
110°	466.3	471.9	481.3	486.9	488.8	492.5	494.4	496.3	498.2	501.9





TEST NUMBER: P395628

CATALOG NUMBER: I3-FL-80L83050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	546.8	552.5	560.0	567.4	565.6	571.2	574.9	576.8	578.7	576.8
115°	619.9	627.4	634.9	642.4	642.4	646.1	653.6	655.5	655.5	659.2
117.5°	689.2	698.5	706.0	713.5	715.4	719.1	724.8	730.4	730.4	734.1
120°	756.6	767.8	775.3	782.8	786.6	788.4	794.0	801.5	801.5	801.5
122.5°	820.3	829.6	839.0	846.5	850.2	854.0	857.7	867.1	867.1	870.8
125°	880.2	891.4	900.8	908.3	912.0	915.8	923.3	928.9	930.8	930.8
127.5°	936.4	947.6	957.0	966.3	968.2	972.0	979.4	986.9	988.8	990.7
130°	988.8	1000.0	1009.4	1018.8	1022.5	1024.4	1033.8	1039.4	1043.1	1045.0
132.5°	1035.6	1046.9	1056.2	1065.6	1069.3	1073.1	1078.7	1088.1	1089.9	1089.9
135°	1078.7	1089.9	1099.3	1110.5	1112.4	1116.2	1123.6	1129.3	1133.0	1134.9
137.5°	1118.0	1129.3	1140.5	1149.9	1153.6	1155.5	1163.0	1170.5	1174.2	1176.1
140°	1153.6	1164.8	1176.1	1183.6	1185.4	1191.1	1196.7	1204.2	1207.9	1209.8
142.5°	1187.3	1196.7	1206.0	1215.4	1217.3	1221.0	1226.6	1234.1	1237.9	1239.8
145°	1217.3	1226.6	1234.1	1241.6	1243.5	1247.2	1252.9	1258.5	1262.2	1264.1
147.5°	1245.4	1252.9	1260.4	1266.0	1267.8	1271.6	1275.3	1279.1	1282.8	1284.7
150°	1269.7	1273.5	1281.0	1284.7	1286.6	1290.3	1294.1	1297.8	1301.6	1303.4
152.5°	1288.4	1294.1	1297.8	1303.4	1305.3	1307.2	1310.9	1314.7	1318.4	1318.4
155°	1303.4	1309.0	1312.8	1318.4	1320.3	1322.2	1325.9	1327.8	1331.5	1331.5
157.5°	1314.7	1320.3	1324.0	1327.8	1329.7	1331.5	1333.4	1337.1	1340.9	1340.9
160°	1327.8	1329.7	1331.5	1335.3	1335.3	1337.1	1339.0	1340.9	1344.6	1344.6
162.5°	1339.0	1340.9	1337.1	1339.0	1337.1	1339.0	1340.9	1342.8	1344.6	1344.6
165°	1342.8	1346.5	1344.6	1346.5	1346.5	1346.5	1346.5	1348.4	1348.4	1348.4
167.5°	1342.8	1346.5	1344.6	1344.6	1346.5	1346.5	1348.4	1350.3	1350.3	1350.3
170°	1342.8	1344.6	1342.8	1340.9	1342.8	1342.8	1342.8	1344.6	1344.6	1344.6
172.5°	1340.9	1342.8	1339.0	1337.1	1337.1	1337.1	1335.3	1335.3	1333.4	1333.4
175°	1339.0	1339.0	1335.3	1333.4	1333.4	1333.4	1329.7	1327.8	1325.9	1324.0
177.5°	1337.1	1337.1	1331.5	1329.7	1329.7	1327.8	1327.8	1324.0	1324.0	1322.2
180°	1333.4	1333.4	1333.4	1333.4	1333.4	1333.4	1333.4	1333.4	1333.4	1333.4

(END OF REPORT)