

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: P395620

Luminaire Tested: **I3-FL-80L82765-1D-UNV-W2A-W-4 (2700K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395620  
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 (2700K)  
Description: CORELITE I3, FROSTED TOP COVER  
8000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6664.3 lumens  
Efficiency: N/A  
Efficacy: 107.0 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

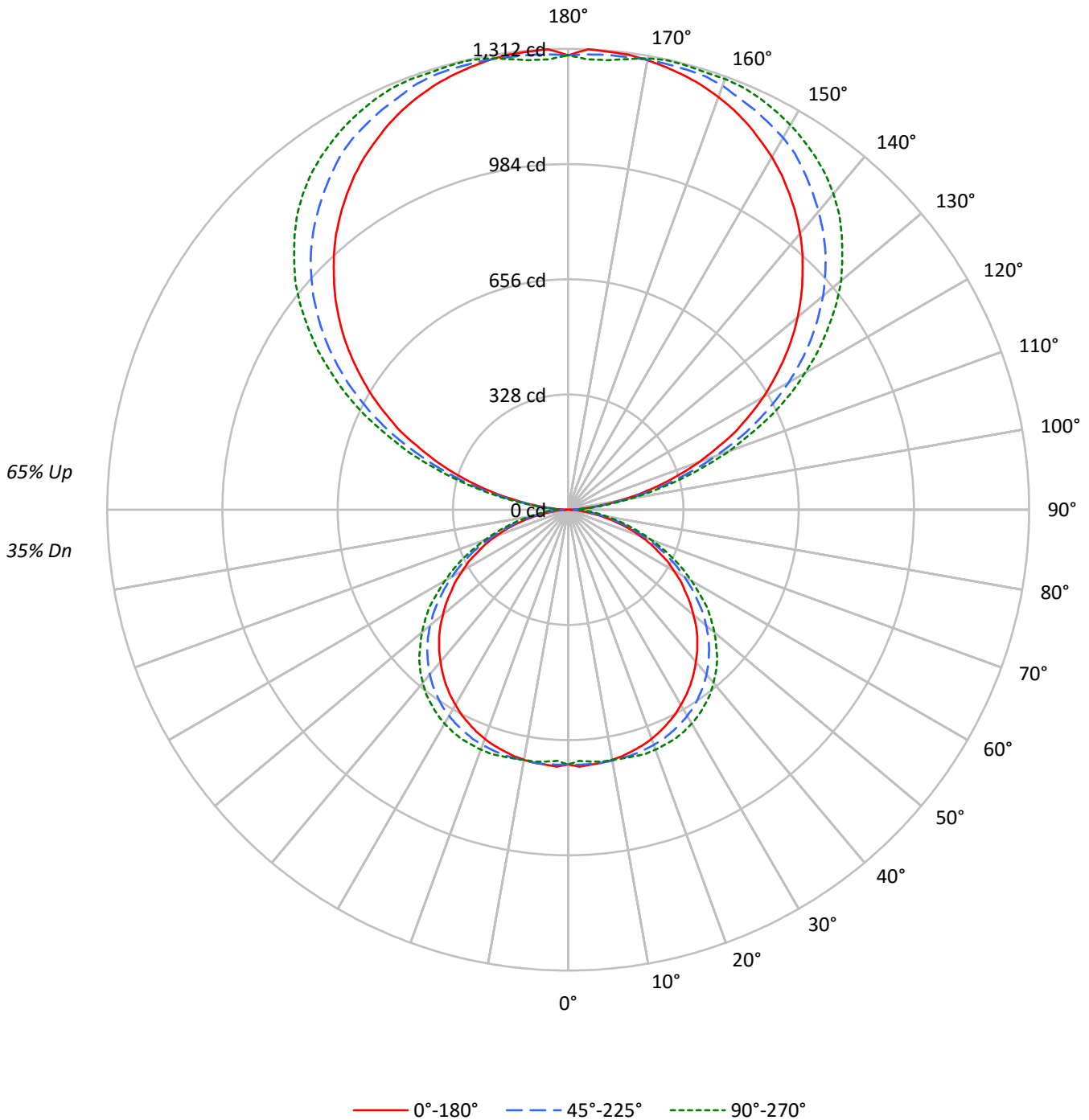
Input Watts (W): 62.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P395620

CATALOG NUMBER: I3-FL-80L82765-1D-UNV-W2A-W-4 (2700K)

### 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°	3985	3985	3985
5°	4006	3920	3858
10°	4007	3866	3813
15°	3998	3833	3797
20°	3999	3799	3792
25°	3988	3765	3778
30°	3974	3730	3743
35°	3955	3670	3688
40°	3916	3593	3607
45°	3876	3482	3496
50°	3786	3328	3326
55°	3678	3118	3127
60°	3554	2873	2825
65°	3379	2575	2509
70°	3138	2195	2119
75°	2731	1744	1685
80°	2132	1238	1234
85°	1158	709	810



TEST NUMBER: P395620

CATALOG NUMBER: I3-FL-80L82765-1D-UNV-W2A-W-4 (2700K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.1	1.0
10°-20°	203.3	3.1
20°-30°	320.7	4.8
30°-40°	403.0	6.0
40°-50°	433.3	6.5
50°-60°	398.6	6.0
60°-70°	305.4	4.6
70°-80°	173.9	2.6
80°-90°	54.3	0.8
90°-100°	72.6	1.1
100°-110°	315.8	4.7
110°-120°	578.2	8.7
120°-130°	745.3	11.2
130°-140°	793.0	11.9
140°-150°	729.6	10.9
150°-160°	578.0	8.7
160°-170°	366.0	5.5
170°-180°	123.9	1.9
0°-30°	593.1	8.9
0°-40°	996.1	14.9
0°-60°	1828.1	27.4
0°-90°	2361.7	35.4
90°-120°	966.7	14.5
90°-150°	3234.6	48.5
90°-180°	4303.0	64.6
0°-180°	6664.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	725	725	725	725	725	
5°	729	722	727	723	720	69
15°	711	707	722	727	727	201
25°	671	672	698	714	720	309
35°	607	614	649	671	678	380
45°	520	532	567	591	600	400
55°	407	423	449	472	482	365
65°	284	293	311	325	331	281
75°	149	153	164	173	178	158
85°	27	34	45	58	62	34
90°	2	6	16	24	27	4
95°	49	47	53	60	62	61
105°	267	280	302	320	325	284
115°	525	549	592	623	640	515
125°	751	783	843	885	903	670
135°	943	974	1036	1080	1101	728
145°	1098	1121	1172	1207	1227	687
155°	1210	1225	1256	1281	1292	558
165°	1279	1279	1298	1307	1308	362
175°	1308	1299	1299	1294	1285	125
180°	1294	1294	1294	1294	1294	



TEST NUMBER: P395620

CATALOG NUMBER: I3-FL-80L82765-1D-UNV-W2A-W-4 (2700K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	725.1	725.1	725.1	725.1	725.1	725.1	725.1	725.1	725.1	725.1	725.1
2.5°	732.4	730.6	728.7	725.1	725.1	723.3	723.3	723.3	723.3	725.1	726.9
5°	728.7	728.7	726.9	723.3	723.3	721.5	721.5	723.3	721.5	723.3	726.9
7.5°	726.9	726.9	725.1	721.5	721.5	721.5	721.5	721.5	721.5	723.3	726.9
10°	723.3	723.3	719.7	717.8	717.8	717.8	717.8	719.7	719.7	721.5	725.1
12.5°	717.8	716.0	714.2	712.4	712.4	712.4	714.2	716.0	716.0	719.7	723.3
15°	710.6	710.6	708.8	706.9	706.9	706.9	708.8	710.6	712.4	716.0	721.5
17.5°	703.3	703.3	701.5	701.5	701.5	701.5	703.3	705.1	708.8	712.4	717.8
20°	694.2	694.2	692.4	692.4	692.4	694.2	694.2	697.8	701.5	706.9	712.4
22.5°	683.3	683.3	683.3	681.5	683.3	685.1	686.9	690.6	694.2	699.7	706.9
25°	670.6	670.6	670.6	670.6	672.4	672.4	676.0	679.7	683.3	690.6	697.8
27.5°	657.9	657.9	657.9	656.1	659.7	661.5	663.3	668.8	672.4	681.5	688.8
30°	641.5	641.5	641.5	643.3	645.1	647.0	650.6	656.1	659.7	668.8	677.9
32.5°	625.2	625.2	625.2	625.2	630.6	632.4	634.2	639.7	647.0	656.1	665.1
35°	607.0	607.0	607.0	608.8	612.4	614.3	617.9	623.3	630.6	639.7	648.8
37.5°	587.0	588.8	588.8	590.6	594.3	597.9	601.5	607.0	614.3	623.3	632.4
40°	565.2	567.0	567.0	568.8	572.5	576.1	579.7	587.0	594.3	603.3	612.4
42.5°	543.4	545.2	545.2	548.8	552.5	556.1	559.7	567.0	574.3	583.4	590.6
45°	519.8	521.6	521.6	525.2	530.7	532.5	537.9	545.2	552.5	559.7	567.0
47.5°	494.3	496.1	496.1	499.8	505.2	508.8	512.5	519.8	525.2	534.3	541.6
50°	465.2	467.1	468.9	472.5	479.8	483.4	487.0	492.5	499.8	505.2	512.5
52.5°	438.0	438.0	439.8	443.4	448.9	452.5	454.3	459.8	468.9	476.1	483.4
55°	407.1	408.9	410.7	414.3	419.8	423.4	425.3	430.7	436.2	441.6	448.9
57.5°	379.8	379.8	381.6	385.3	390.7	392.5	394.4	398.0	405.3	410.7	416.2
60°	347.1	348.9	350.7	354.4	358.0	361.6	361.6	367.1	372.5	378.0	381.6
62.5°	318.0	318.0	319.8	323.5	325.3	328.9	328.9	334.4	338.0	343.5	347.1
65°	283.5	285.3	287.1	289.0	292.6	292.6	294.4	298.0	301.7	305.3	310.8
67.5°	252.6	252.6	254.4	256.2	258.1	258.1	259.9	263.5	267.1	270.8	274.4
70°	218.1	219.9	219.9	219.9	221.7	223.5	225.3	227.2	230.8	232.6	236.3
72.5°	183.5	183.5	185.4	185.4	187.2	189.0	190.8	192.6	194.5	198.1	199.9
75°	149.0	149.0	150.8	150.8	152.7	152.7	152.7	156.3	158.1	161.7	163.6
77.5°	114.5	116.3	116.3	116.3	118.1	119.9	119.9	121.8	125.4	127.2	129.0
80°	83.6	83.6	83.6	83.6	85.4	87.2	89.0	89.0	92.7	96.3	98.1
82.5°	52.7	52.7	54.5	56.3	56.3	58.2	60.0	61.8	65.4	67.2	69.1
85°	27.3	27.3	29.1	30.9	32.7	34.5	34.5	36.3	40.0	43.6	45.4
87.5°	9.1	10.9	10.9	12.7	14.5	16.4	18.2	20.0	23.6	27.3	29.1
90°	1.8	1.8	1.8	3.6	5.5	5.5	7.3	9.1	10.9	12.7	16.4
92.5°	16.4	16.4	14.5	16.4	16.4	16.4	16.4	18.2	20.0	20.0	23.6
95°	49.1	47.3	47.3	47.3	47.3	47.3	47.3	49.1	50.9	50.9	52.7
97.5°	94.5	94.5	92.7	92.7	94.5	94.5	94.5	96.3	100.0	98.1	101.8
100°	147.2	147.2	145.4	147.2	149.0	150.8	154.5	154.5	158.1	158.1	163.6
102.5°	207.2	207.2	205.4	209.0	210.8	214.4	214.4	218.1	223.5	223.5	230.8
105°	267.1	269.0	269.0	272.6	276.2	279.9	279.9	285.3	292.6	292.6	301.7
107.5°	332.6	334.4	334.4	338.0	341.7	345.3	347.1	354.4	361.6	363.5	374.4
110°	396.2	398.0	399.8	403.4	407.1	412.5	416.2	423.4	432.5	436.2	445.2



TEST NUMBER: P395620

CATALOG NUMBER: I3-FL-80L82765-1D-UNV-W2A-W-4 (2700K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	456.1	463.4	465.2	470.7	476.1	481.6	485.2	494.3	505.2	510.7	521.6
115°	525.2	528.8	530.7	536.1	543.4	548.8	552.5	561.6	572.5	579.7	592.4
117.5°	581.5	590.6	592.4	597.9	605.2	610.6	614.3	625.2	637.9	647.0	659.7
120°	641.5	648.8	656.1	659.7	665.1	672.4	676.0	686.9	701.5	710.6	725.1
122.5°	696.0	703.3	710.6	716.0	723.3	726.9	732.4	745.1	759.6	770.5	785.1
125°	750.6	759.6	765.1	770.5	779.6	783.3	788.7	801.4	816.0	828.7	843.2
127.5°	803.3	808.7	817.8	821.4	830.5	834.1	839.6	854.1	868.7	881.4	895.9
130°	852.3	859.6	866.9	868.7	879.6	885.0	890.5	903.2	919.6	932.3	946.8
132.5°	899.6	903.2	912.3	917.7	926.8	932.3	937.7	948.6	965.0	977.7	992.3
135°	943.2	946.8	957.7	963.2	968.6	974.1	981.4	992.3	1008.6	1021.3	1035.9
137.5°	986.8	990.4	1001.3	1006.8	1010.4	1015.9	1021.3	1032.2	1048.6	1061.3	1074.0
140°	1026.8	1030.4	1037.7	1045.0	1048.6	1052.2	1057.7	1068.6	1083.1	1095.8	1108.6
142.5°	1063.1	1066.8	1074.0	1081.3	1086.8	1086.8	1092.2	1101.3	1117.6	1130.4	1141.3
145°	1097.7	1099.5	1106.7	1114.0	1121.3	1121.3	1123.1	1132.2	1146.7	1161.3	1172.2
147.5°	1130.4	1132.2	1137.6	1144.9	1150.4	1152.2	1155.8	1159.4	1174.0	1188.5	1201.2
150°	1159.4	1161.3	1164.9	1172.2	1175.8	1179.4	1183.1	1184.9	1195.8	1208.5	1223.1
152.5°	1184.9	1186.7	1190.3	1195.8	1199.4	1203.1	1206.7	1212.2	1217.6	1230.3	1239.4
155°	1210.3	1212.2	1214.0	1219.4	1223.1	1224.9	1226.7	1234.0	1239.4	1246.7	1255.8
157.5°	1232.1	1232.1	1234.0	1237.6	1241.2	1241.2	1243.0	1250.3	1255.8	1263.0	1268.5
160°	1250.3	1250.3	1252.1	1255.8	1255.8	1257.6	1259.4	1264.9	1268.5	1277.6	1284.8
162.5°	1266.7	1264.9	1266.7	1268.5	1268.5	1268.5	1270.3	1273.9	1279.4	1286.7	1293.9
165°	1279.4	1279.4	1279.4	1281.2	1281.2	1279.4	1279.4	1283.0	1286.7	1292.1	1297.6
167.5°	1290.3	1290.3	1288.5	1290.3	1288.5	1288.5	1286.7	1288.5	1290.3	1295.7	1299.4
170°	1299.4	1297.6	1297.6	1297.6	1295.7	1293.9	1293.9	1293.9	1293.9	1297.6	1301.2
172.5°	1306.7	1304.8	1303.0	1303.0	1299.4	1297.6	1297.6	1295.7	1295.7	1297.6	1299.4
175°	1308.5	1306.7	1304.8	1304.8	1301.2	1299.4	1297.6	1297.6	1295.7	1297.6	1299.4
177.5°	1312.1	1310.3	1306.7	1306.7	1303.0	1299.4	1299.4	1297.6	1295.7	1297.6	1297.6
180°	1293.9	1293.9	1293.9	1293.9	1293.9	1293.9	1293.9	1293.9	1293.9	1293.9	1293.9



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	725.1	725.1	725.1	725.1	725.1	725.1	725.1	725.1	725.1	725.1
2.5°	728.7	728.7	726.9	725.1	725.1	723.3	721.5	719.7	717.8	716.0
5°	728.7	726.9	725.1	725.1	723.3	723.3	723.3	721.5	719.7	719.7
7.5°	728.7	728.7	726.9	725.1	725.1	725.1	725.1	725.1	723.3	723.3
10°	728.7	726.9	726.9	726.9	725.1	726.9	726.9	725.1	725.1	723.3
12.5°	726.9	726.9	726.9	726.9	726.9	726.9	726.9	726.9	726.9	725.1
15°	723.3	725.1	725.1	726.9	726.9	726.9	728.7	728.7	726.9	726.9
17.5°	721.5	723.3	725.1	726.9	726.9	726.9	728.7	728.7	728.7	728.7
20°	717.8	719.7	721.5	723.3	723.3	725.1	725.1	726.9	726.9	726.9
22.5°	710.6	712.4	716.0	717.8	719.7	721.5	723.3	723.3	723.3	723.3
25°	703.3	706.9	708.8	712.4	714.2	716.0	717.8	717.8	717.8	719.7
27.5°	694.2	697.8	703.3	705.1	706.9	708.8	710.6	712.4	712.4	712.4
30°	683.3	688.8	692.4	696.0	697.8	699.7	701.5	701.5	703.3	703.3
32.5°	670.6	676.0	679.7	683.3	685.1	686.9	690.6	690.6	692.4	692.4
35°	654.2	659.7	665.1	668.8	670.6	672.4	676.0	677.9	677.9	677.9
37.5°	637.9	643.3	648.8	654.2	656.1	657.9	661.5	661.5	663.3	663.3
40°	617.9	623.3	628.8	634.2	634.2	637.9	639.7	641.5	643.3	643.3
42.5°	597.9	603.3	607.0	612.4	614.3	616.1	617.9	621.5	621.5	623.3
45°	574.3	579.7	583.4	588.8	590.6	592.4	596.1	597.9	599.7	599.7
47.5°	548.8	552.5	556.1	561.6	565.2	567.0	568.8	570.6	572.5	570.6
50°	519.8	523.4	528.8	534.3	536.1	537.9	541.6	541.6	543.4	543.4
52.5°	488.9	494.3	497.9	503.4	505.2	507.0	510.7	510.7	512.5	512.5
55°	454.3	458.0	461.6	470.7	472.5	474.3	478.0	478.0	479.8	481.6
57.5°	421.6	423.4	428.9	432.5	436.2	436.2	438.0	439.8	441.6	441.6
60°	387.1	388.9	392.5	398.0	398.0	399.8	403.4	403.4	405.3	405.3
62.5°	350.7	354.4	358.0	363.5	361.6	363.5	367.1	367.1	368.9	368.9
65°	314.4	316.2	319.8	323.5	325.3	325.3	327.1	328.9	330.8	330.8
67.5°	276.2	279.9	281.7	287.1	285.3	287.1	289.0	289.0	290.8	290.8
70°	239.9	241.7	245.3	247.2	247.2	249.0	250.8	250.8	250.8	252.6
72.5°	203.5	205.4	207.2	209.0	209.0	210.8	212.6	212.6	214.4	214.4
75°	165.4	169.0	170.8	174.5	172.6	174.5	178.1	178.1	178.1	178.1
77.5°	132.7	134.5	138.1	139.9	139.9	139.9	143.6	141.8	143.6	143.6
80°	100.0	101.8	105.4	107.2	107.2	109.0	110.9	110.9	110.9	112.7
82.5°	70.9	74.5	78.1	80.0	80.0	81.8	83.6	83.6	85.4	85.4
85°	49.1	52.7	56.3	56.3	58.2	60.0	61.8	61.8	61.8	61.8
87.5°	32.7	34.5	36.3	38.2	40.0	40.0	41.8	41.8	43.6	43.6
90°	18.2	20.0	21.8	23.6	23.6	25.4	25.4	27.3	27.3	27.3
92.5°	25.4	25.4	27.3	29.1	29.1	29.1	29.1	30.9	30.9	30.9
95°	54.5	56.3	56.3	60.0	60.0	60.0	61.8	61.8	61.8	61.8
97.5°	105.4	105.4	105.4	109.0	109.0	109.0	110.9	110.9	110.9	112.7
100°	165.4	167.2	167.2	172.6	170.8	174.5	174.5	174.5	174.5	176.3
102.5°	232.6	236.3	238.1	243.5	243.5	243.5	247.2	245.3	247.2	247.2
105°	305.3	308.9	310.8	316.2	319.8	319.8	323.5	321.7	323.5	325.3
107.5°	378.0	383.5	387.1	392.5	396.2	398.0	398.0	399.8	401.6	403.4
110°	452.5	458.0	467.1	472.5	474.3	478.0	479.8	481.6	483.4	487.0





TEST NUMBER: P395620

CATALOG NUMBER: I3-FL-80L82765-1D-UNV-W2A-W-4 (2700K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	530.7	536.1	543.4	550.6	548.8	554.3	557.9	559.7	561.6	559.7
115°	601.5	608.8	616.1	623.3	623.3	627.0	634.2	636.1	636.1	639.7
117.5°	668.8	677.9	685.1	692.4	694.2	697.8	703.3	708.8	708.8	712.4
120°	734.2	745.1	752.4	759.6	763.3	765.1	770.5	777.8	777.8	777.8
122.5°	796.0	805.1	814.2	821.4	825.1	828.7	832.3	841.4	841.4	845.1
125°	854.1	865.0	874.1	881.4	885.0	888.7	895.9	901.4	903.2	903.2
127.5°	908.7	919.6	928.6	937.7	939.6	943.2	950.5	957.7	959.5	961.4
130°	959.5	970.4	979.5	988.6	992.3	994.1	1003.2	1008.6	1012.2	1014.1
132.5°	1005.0	1015.9	1025.0	1034.1	1037.7	1041.3	1046.8	1055.9	1057.7	1057.7
135°	1046.8	1057.7	1066.8	1077.7	1079.5	1083.1	1090.4	1095.8	1099.5	1101.3
137.5°	1084.9	1095.8	1106.7	1115.8	1119.5	1121.3	1128.6	1135.8	1139.5	1141.3
140°	1119.5	1130.4	1141.3	1148.5	1150.4	1155.8	1161.3	1168.5	1172.2	1174.0
142.5°	1152.2	1161.3	1170.4	1179.4	1181.3	1184.9	1190.3	1197.6	1201.2	1203.1
145°	1181.3	1190.3	1197.6	1204.9	1206.7	1210.3	1215.8	1221.2	1224.9	1226.7
147.5°	1208.5	1215.8	1223.1	1228.5	1230.3	1234.0	1237.6	1241.2	1244.9	1246.7
150°	1232.1	1235.8	1243.0	1246.7	1248.5	1252.1	1255.8	1259.4	1263.0	1264.9
152.5°	1250.3	1255.8	1259.4	1264.9	1266.7	1268.5	1272.1	1275.8	1279.4	1279.4
155°	1264.9	1270.3	1273.9	1279.4	1281.2	1283.0	1286.7	1288.5	1292.1	1292.1
157.5°	1275.8	1281.2	1284.8	1288.5	1290.3	1292.1	1293.9	1297.6	1301.2	1301.2
160°	1288.5	1290.3	1292.1	1295.7	1295.7	1297.6	1299.4	1301.2	1304.8	1304.8
162.5°	1299.4	1301.2	1297.6	1299.4	1297.6	1299.4	1301.2	1303.0	1304.8	1304.8
165°	1303.0	1306.7	1304.8	1306.7	1306.7	1306.7	1306.7	1308.5	1308.5	1308.5
167.5°	1303.0	1306.7	1304.8	1304.8	1306.7	1306.7	1308.5	1310.3	1310.3	1310.3
170°	1303.0	1304.8	1303.0	1301.2	1303.0	1303.0	1303.0	1304.8	1304.8	1304.8
172.5°	1301.2	1303.0	1299.4	1297.6	1297.6	1297.6	1295.7	1295.7	1293.9	1293.9
175°	1299.4	1299.4	1295.7	1293.9	1293.9	1293.9	1290.3	1288.5	1286.7	1284.8
177.5°	1297.6	1297.6	1292.1	1290.3	1290.3	1288.5	1288.5	1284.8	1284.8	1283.0
180°	1293.9	1293.9	1293.9	1293.9	1293.9	1293.9	1293.9	1293.9	1293.9	1293.9

(END OF REPORT)