

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: P395624

Luminaire Tested: **I3-FL-80L82765-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395624
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 (4500K)
Description: CORELITE I3, FROSTED TOP COVER
8000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7375.7 lumens
Efficiency: N/A
Efficacy: 116.2 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

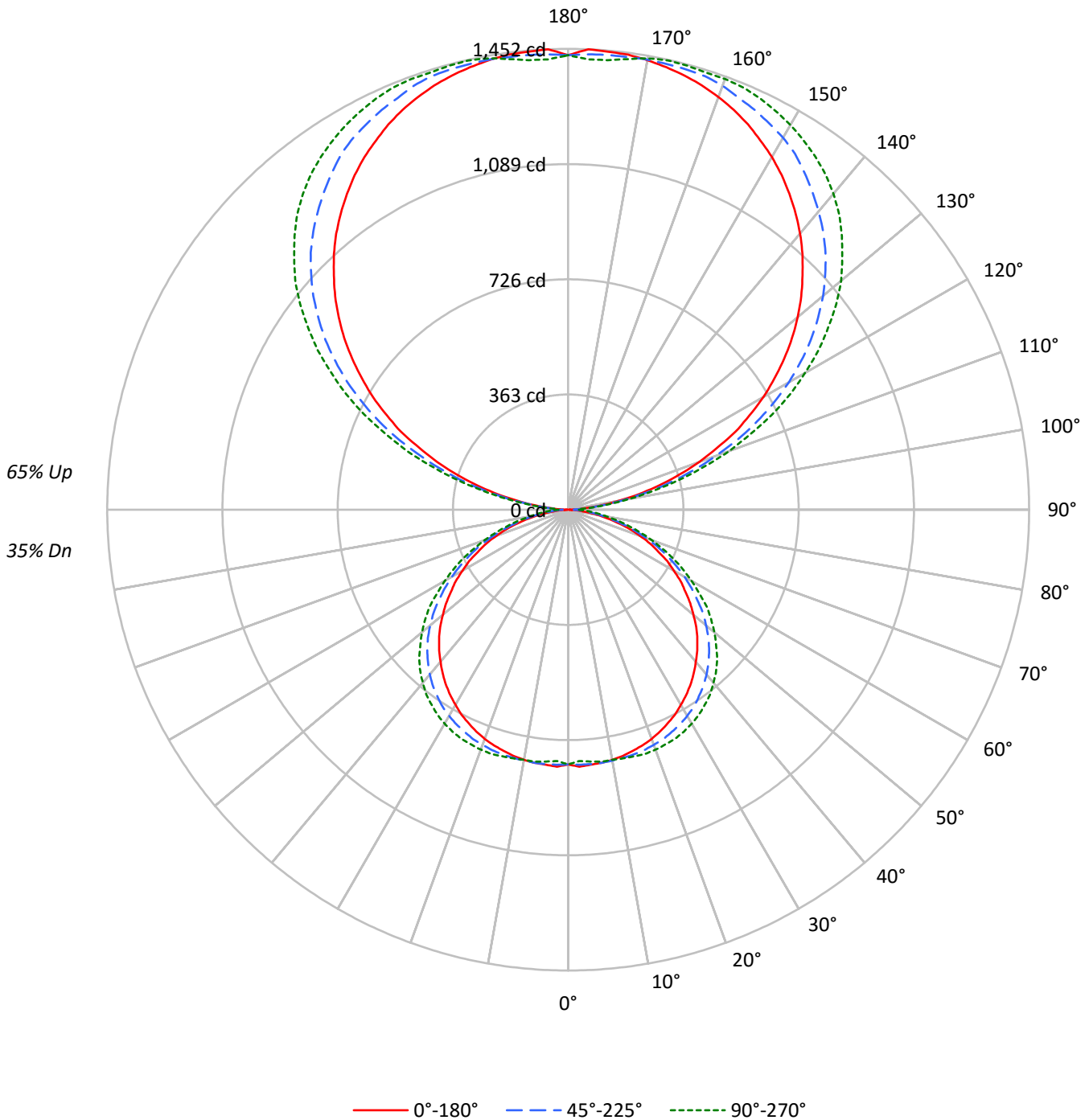
Input Watts (W): 63.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P395624

CATALOG NUMBER: I3-FL-80L82765-1D-UNV-W2A-W-4 (4500K)

Luminous Intensity Polar Plot





TEST NUMBER: P395624

CATALOG NUMBER: I3-FL-80L82765-1D-UNV-W2A-W-4 (4500K)

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	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°	4411	4411	4411
5°	4433	4338	4270
10°	4435	4278	4220
15°	4424	4242	4203
20°	4425	4205	4197
25°	4414	4167	4181
30°	4398	4128	4143
35°	4377	4062	4081
40°	4333	3976	3992
45°	4289	3853	3869
50°	4190	3683	3680
55°	4070	3451	3460
60°	3934	3180	3126
65°	3740	2849	2777
70°	3473	2429	2345
75°	3022	1930	1865
80°	2359	1371	1366
85°	1281	786	897



TEST NUMBER: P395624

CATALOG NUMBER: I3-FL-80L82765-1D-UNV-W2A-W-4 (4500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.5	1.0
10°-20°	225.0	3.1
20°-30°	354.9	4.8
30°-40°	446.0	6.0
40°-50°	479.6	6.5
50°-60°	441.2	6.0
60°-70°	338.0	4.6
70°-80°	192.5	2.6
80°-90°	60.1	0.8
90°-100°	80.4	1.1
100°-110°	349.6	4.7
110°-120°	639.9	8.7
120°-130°	824.9	11.2
130°-140°	877.7	11.9
140°-150°	807.5	10.9
150°-160°	639.7	8.7
160°-170°	405.1	5.5
170°-180°	137.2	1.9
0°-30°	656.4	8.9
0°-40°	1102.5	14.9
0°-60°	2023.2	27.4
0°-90°	2613.8	35.4
90°-120°	1069.8	14.5
90°-150°	3579.9	48.5
90°-180°	4762.0	64.6
0°-180°	7375.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	802	802	802	802	802	
5°	806	798	804	800	796	77
15°	786	782	798	804	804	222
25°	742	744	772	790	796	342
35°	672	680	718	742	750	420
45°	575	589	628	654	664	443
55°	450	469	497	523	533	404
65°	314	324	344	360	366	311
75°	165	169	181	191	197	174
85°	30	38	50	64	68	38
90°	2	6	18	26	30	4
95°	54	52	58	66	68	68
105°	296	310	334	354	360	315
115°	581	607	656	690	708	570
125°	831	867	933	980	1000	742
135°	1044	1078	1146	1195	1219	806
145°	1215	1241	1297	1336	1358	760
155°	1340	1356	1390	1418	1430	617
165°	1416	1416	1436	1446	1448	400
175°	1448	1438	1438	1432	1422	138
180°	1432	1432	1432	1432	1432	



TEST NUMBER: P395624

CATALOG NUMBER: I3-FL-80L82765-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	802.5	802.5	802.5	802.5	802.5	802.5	802.5	802.5	802.5	802.5	802.5
2.5°	810.6	808.6	806.5	802.5	802.5	800.5	800.5	800.5	800.5	802.5	804.5
5°	806.5	806.5	804.5	800.5	800.5	798.5	798.5	800.5	798.5	800.5	804.5
7.5°	804.5	804.5	802.5	798.5	798.5	798.5	798.5	798.5	798.5	800.5	804.5
10°	800.5	800.5	796.5	794.5	794.5	794.5	794.5	796.5	796.5	798.5	802.5
12.5°	794.5	792.5	790.4	788.4	788.4	788.4	790.4	792.5	792.5	796.5	800.5
15°	786.4	786.4	784.4	782.4	782.4	782.4	784.4	786.4	788.4	792.5	798.5
17.5°	778.4	778.4	776.4	776.4	776.4	776.4	778.4	780.4	784.4	788.4	794.5
20°	768.3	768.3	766.3	766.3	766.3	768.3	768.3	772.3	776.4	782.4	788.4
22.5°	756.3	756.3	756.3	754.2	756.3	758.3	760.3	764.3	768.3	774.4	782.4
25°	742.2	742.2	742.2	742.2	744.2	744.2	748.2	752.2	756.3	764.3	772.3
27.5°	728.1	728.1	728.1	726.1	730.1	732.1	734.1	740.2	744.2	754.2	762.3
30°	710.0	710.0	710.0	712.0	714.0	716.0	720.1	726.1	730.1	740.2	750.2
32.5°	691.9	691.9	691.9	691.9	697.9	699.9	702.0	708.0	716.0	726.1	736.1
35°	671.8	671.8	671.8	673.8	677.8	679.8	683.8	689.9	697.9	708.0	718.0
37.5°	649.7	651.7	651.7	653.7	657.7	661.7	665.7	671.8	679.8	689.9	699.9
40°	625.5	627.5	627.5	629.5	633.6	637.6	641.6	649.7	657.7	667.8	677.8
42.5°	601.4	603.4	603.4	607.4	611.4	615.5	619.5	627.5	635.6	645.6	653.7
45°	575.2	577.2	577.2	581.3	587.3	589.3	595.4	603.4	611.4	619.5	627.5
47.5°	547.1	549.1	549.1	553.1	559.1	563.2	567.2	575.2	581.3	591.3	599.4
50°	514.9	516.9	518.9	522.9	531.0	535.0	539.0	545.1	553.1	559.1	567.2
52.5°	484.7	484.7	486.7	490.8	496.8	500.8	502.8	508.9	518.9	527.0	535.0
55°	450.5	452.5	454.6	458.6	464.6	468.6	470.6	476.7	482.7	488.8	496.8
57.5°	420.4	420.4	422.4	426.4	432.4	434.4	436.5	440.5	448.5	454.6	460.6
60°	384.2	386.2	388.2	392.2	396.2	400.3	400.3	406.3	412.3	418.4	422.4
62.5°	352.0	352.0	354.0	358.0	360.0	364.0	364.0	370.1	374.1	380.1	384.2
65°	313.8	315.8	317.8	319.8	323.8	323.8	325.8	329.9	333.9	337.9	343.9
67.5°	279.6	279.6	281.6	283.6	285.6	285.6	287.6	291.6	295.7	299.7	303.7
70°	241.4	243.4	243.4	243.4	245.4	247.4	249.4	251.4	255.4	257.4	261.5
72.5°	203.1	203.1	205.2	205.2	207.2	209.2	211.2	213.2	215.2	219.2	221.2
75°	164.9	164.9	166.9	166.9	169.0	169.0	169.0	173.0	175.0	179.0	181.0
77.5°	126.7	128.7	128.7	128.7	130.7	132.7	132.7	134.8	138.8	140.8	142.8
80°	92.5	92.5	92.5	92.5	94.5	96.5	98.6	98.6	102.6	106.6	108.6
82.5°	58.3	58.3	60.3	62.4	62.4	64.4	66.4	68.4	72.4	74.4	76.4
85°	30.2	30.2	32.2	34.2	36.2	38.2	38.2	40.2	44.2	48.3	50.3
87.5°	10.1	12.1	12.1	14.1	16.1	18.1	20.1	22.1	26.1	30.2	32.2
90°	2.0	2.0	2.0	4.0	6.0	6.0	8.0	10.1	12.1	14.1	18.1
92.5°	18.1	18.1	16.1	18.1	18.1	18.1	18.1	20.1	22.1	22.1	26.1
95°	54.3	52.3	52.3	52.3	52.3	52.3	52.3	54.3	56.3	56.3	58.3
97.5°	104.6	104.6	102.6	102.6	104.6	104.6	104.6	106.6	110.6	108.6	112.6
100°	162.9	162.9	160.9	162.9	164.9	166.9	171.0	171.0	175.0	175.0	181.0
102.5°	229.3	229.3	227.3	231.3	233.3	237.3	237.3	241.4	247.4	247.4	255.4
105°	295.7	297.7	297.7	301.7	305.7	309.7	309.7	315.8	323.8	323.8	333.9
107.5°	368.1	370.1	370.1	374.1	378.1	382.2	384.2	392.2	400.3	402.3	414.3
110°	438.5	440.5	442.5	446.5	450.5	456.6	460.6	468.6	478.7	482.7	492.8



TEST NUMBER: P395624

CATALOG NUMBER: I3-FL-80L82765-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	504.8	512.9	514.9	520.9	527.0	533.0	537.0	547.1	559.1	565.2	577.2
115°	581.3	585.3	587.3	593.3	601.4	607.4	611.4	621.5	633.6	641.6	655.7
117.5°	643.6	653.7	655.7	661.7	669.8	675.8	679.8	691.9	706.0	716.0	730.1
120°	710.0	718.0	726.1	730.1	736.1	744.2	748.2	760.3	776.4	786.4	802.5
122.5°	770.3	778.4	786.4	792.5	800.5	804.5	810.6	824.6	840.7	852.8	868.9
125°	830.7	840.7	846.8	852.8	862.9	866.9	872.9	887.0	903.1	917.2	933.3
127.5°	889.0	895.0	905.1	909.1	919.2	923.2	929.2	945.3	961.4	975.5	991.6
130°	943.3	951.4	959.4	961.4	973.5	979.5	985.5	999.6	1017.7	1031.8	1047.9
132.5°	995.6	999.6	1009.7	1015.7	1025.8	1031.8	1037.8	1049.9	1068.0	1082.1	1098.2
135°	1043.9	1047.9	1060.0	1066.0	1072.0	1078.1	1086.1	1098.2	1116.3	1130.4	1146.5
137.5°	1092.1	1096.2	1108.2	1114.3	1118.3	1124.3	1130.4	1142.4	1160.5	1174.6	1188.7
140°	1136.4	1140.4	1148.5	1156.5	1160.5	1164.6	1170.6	1182.7	1198.7	1212.8	1226.9
142.5°	1176.6	1180.6	1188.7	1196.7	1202.8	1202.8	1208.8	1218.9	1237.0	1251.0	1263.1
145°	1214.8	1216.8	1224.9	1232.9	1241.0	1241.0	1243.0	1253.1	1269.1	1285.2	1297.3
147.5°	1251.0	1253.1	1259.1	1267.1	1273.2	1275.2	1279.2	1283.2	1299.3	1315.4	1329.5
150°	1283.2	1285.2	1289.3	1297.3	1301.3	1305.3	1309.4	1311.4	1323.4	1337.5	1353.6
152.5°	1311.4	1313.4	1317.4	1323.4	1327.5	1331.5	1335.5	1341.6	1347.6	1361.7	1371.7
155°	1339.5	1341.6	1343.6	1349.6	1353.6	1355.6	1357.6	1365.7	1371.7	1379.8	1389.8
157.5°	1363.7	1363.7	1365.7	1369.7	1373.7	1373.7	1375.7	1383.8	1389.8	1397.9	1403.9
160°	1383.8	1383.8	1385.8	1389.8	1389.8	1391.8	1393.8	1399.9	1403.9	1414.0	1422.0
162.5°	1401.9	1399.9	1401.9	1403.9	1403.9	1403.9	1405.9	1409.9	1416.0	1424.0	1432.1
165°	1416.0	1416.0	1416.0	1418.0	1418.0	1416.0	1416.0	1420.0	1424.0	1430.0	1436.1
167.5°	1428.0	1428.0	1426.0	1428.0	1426.0	1426.0	1424.0	1426.0	1428.0	1434.1	1438.1
170°	1438.1	1436.1	1436.1	1436.1	1434.1	1432.1	1432.1	1432.1	1432.1	1436.1	1440.1
172.5°	1446.1	1444.1	1442.1	1442.1	1438.1	1436.1	1436.1	1434.1	1434.1	1436.1	1438.1
175°	1448.2	1446.1	1444.1	1444.1	1440.1	1438.1	1436.1	1436.1	1434.1	1436.1	1438.1
177.5°	1452.2	1450.2	1446.1	1446.1	1442.1	1438.1	1438.1	1436.1	1434.1	1436.1	1436.1
180°	1432.1	1432.1	1432.1	1432.1	1432.1	1432.1	1432.1	1432.1	1432.1	1432.1	1432.1



TEST NUMBER: P395624

CATALOG NUMBER: I3-FL-80L82765-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	802.5	802.5	802.5	802.5	802.5	802.5	802.5	802.5	802.5	802.5
2.5°	806.5	806.5	804.5	802.5	802.5	800.5	798.5	796.5	794.5	792.5
5°	806.5	804.5	802.5	802.5	800.5	800.5	800.5	798.5	796.5	796.5
7.5°	806.5	806.5	804.5	802.5	802.5	802.5	802.5	802.5	800.5	800.5
10°	806.5	804.5	804.5	804.5	802.5	804.5	804.5	802.5	802.5	800.5
12.5°	804.5	804.5	804.5	804.5	804.5	804.5	804.5	804.5	804.5	802.5
15°	800.5	802.5	802.5	804.5	804.5	804.5	806.5	806.5	804.5	804.5
17.5°	798.5	800.5	802.5	804.5	804.5	804.5	806.5	806.5	806.5	806.5
20°	794.5	796.5	798.5	800.5	800.5	802.5	802.5	804.5	804.5	804.5
22.5°	786.4	788.4	792.5	794.5	796.5	798.5	800.5	800.5	800.5	800.5
25°	778.4	782.4	784.4	788.4	790.4	792.5	794.5	794.5	794.5	796.5
27.5°	768.3	772.3	778.4	780.4	782.4	784.4	786.4	788.4	788.4	788.4
30°	756.3	762.3	766.3	770.3	772.3	774.4	776.4	776.4	778.4	778.4
32.5°	742.2	748.2	752.2	756.3	758.3	760.3	764.3	764.3	766.3	766.3
35°	724.1	730.1	736.1	740.2	742.2	744.2	748.2	750.2	750.2	750.2
37.5°	706.0	712.0	718.0	724.1	726.1	728.1	732.1	732.1	734.1	734.1
40°	683.8	689.9	695.9	702.0	702.0	706.0	708.0	710.0	712.0	712.0
42.5°	661.7	667.8	671.8	677.8	679.8	681.8	683.8	687.9	687.9	689.9
45°	635.6	641.6	645.6	651.7	653.7	655.7	659.7	661.7	663.7	663.7
47.5°	607.4	611.4	615.5	621.5	625.5	627.5	629.5	631.6	633.6	631.6
50°	575.2	579.3	585.3	591.3	593.3	595.4	599.4	599.4	601.4	601.4
52.5°	541.0	547.1	551.1	557.1	559.1	561.2	565.2	565.2	567.2	567.2
55°	502.8	506.9	510.9	520.9	522.9	525.0	529.0	529.0	531.0	533.0
57.5°	466.6	468.6	474.7	478.7	482.7	482.7	484.7	486.7	488.8	488.8
60°	428.4	430.4	434.4	440.5	440.5	442.5	446.5	446.5	448.5	448.5
62.5°	388.2	392.2	396.2	402.3	400.3	402.3	406.3	406.3	408.3	408.3
65°	348.0	350.0	354.0	358.0	360.0	360.0	362.0	364.0	366.1	366.1
67.5°	305.7	309.7	311.8	317.8	315.8	317.8	319.8	319.8	321.8	321.8
70°	265.5	267.5	271.5	273.5	273.5	275.6	277.6	277.6	277.6	279.6
72.5°	225.3	227.3	229.3	231.3	231.3	233.3	235.3	235.3	237.3	237.3
75°	183.0	187.1	189.1	193.1	191.1	193.1	197.1	197.1	197.1	197.1
77.5°	146.8	148.8	152.9	154.9	154.9	154.9	158.9	156.9	158.9	158.9
80°	110.6	112.6	116.7	118.7	118.7	120.7	122.7	122.7	122.7	124.7
82.5°	78.4	82.5	86.5	88.5	88.5	90.5	92.5	92.5	94.5	94.5
85°	54.3	58.3	62.4	62.4	64.4	66.4	68.4	68.4	68.4	68.4
87.5°	36.2	38.2	40.2	42.2	44.2	44.2	46.3	46.3	48.3	48.3
90°	20.1	22.1	24.1	26.1	26.1	28.2	28.2	30.2	30.2	30.2
92.5°	28.2	28.2	30.2	32.2	32.2	32.2	32.2	34.2	34.2	34.2
95°	60.3	62.4	62.4	66.4	66.4	66.4	68.4	68.4	68.4	68.4
97.5°	116.7	116.7	116.7	120.7	120.7	120.7	122.7	122.7	122.7	124.7
100°	183.0	185.0	185.0	191.1	189.1	193.1	193.1	193.1	193.1	195.1
102.5°	257.4	261.5	263.5	269.5	269.5	269.5	273.5	271.5	273.5	273.5
105°	337.9	341.9	343.9	350.0	354.0	354.0	358.0	356.0	358.0	360.0
107.5°	418.4	424.4	428.4	434.4	438.5	440.5	440.5	442.5	444.5	446.5
110°	500.8	506.9	516.9	522.9	525.0	529.0	531.0	533.0	535.0	539.0



TEST NUMBER: P395624

CATALOG NUMBER: I3-FL-80L82765-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	587.3	593.3	601.4	609.4	607.4	613.5	617.5	619.5	621.5	619.5
115°	665.7	673.8	681.8	689.9	689.9	693.9	702.0	704.0	704.0	708.0
117.5°	740.2	750.2	758.3	766.3	768.3	772.3	778.4	784.4	784.4	788.4
120°	812.6	824.6	832.7	840.7	844.8	846.8	852.8	860.8	860.8	860.8
122.5°	881.0	891.0	901.1	909.1	913.1	917.2	921.2	931.2	931.2	935.3
125°	945.3	957.4	967.4	975.5	979.5	983.5	991.6	997.6	999.6	999.6
127.5°	1005.7	1017.7	1027.8	1037.8	1039.9	1043.9	1051.9	1060.0	1062.0	1064.0
130°	1062.0	1074.0	1084.1	1094.2	1098.2	1100.2	1110.2	1116.3	1120.3	1122.3
132.5°	1112.3	1124.3	1134.4	1144.4	1148.5	1152.5	1158.5	1168.6	1170.6	1170.6
135°	1158.5	1170.6	1180.6	1192.7	1194.7	1198.7	1206.8	1212.8	1216.8	1218.9
137.5°	1200.8	1212.8	1224.9	1235.0	1239.0	1241.0	1249.0	1257.1	1261.1	1263.1
140°	1239.0	1251.0	1263.1	1271.2	1273.2	1279.2	1285.2	1293.3	1297.3	1299.3
142.5°	1275.2	1285.2	1295.3	1305.3	1307.4	1311.4	1317.4	1325.5	1329.5	1331.5
145°	1307.4	1317.4	1325.5	1333.5	1335.5	1339.5	1345.6	1351.6	1355.6	1357.6
147.5°	1337.5	1345.6	1353.6	1359.7	1361.7	1365.7	1369.7	1373.7	1377.8	1379.8
150°	1363.7	1367.7	1375.7	1379.8	1381.8	1385.8	1389.8	1393.8	1397.9	1399.9
152.5°	1383.8	1389.8	1393.8	1399.9	1401.9	1403.9	1407.9	1411.9	1416.0	1416.0
155°	1399.9	1405.9	1409.9	1416.0	1418.0	1420.0	1424.0	1426.0	1430.0	1430.0
157.5°	1411.9	1418.0	1422.0	1426.0	1428.0	1430.0	1432.1	1436.1	1440.1	1440.1
160°	1426.0	1428.0	1430.0	1434.1	1434.1	1436.1	1438.1	1440.1	1444.1	1444.1
162.5°	1438.1	1440.1	1436.1	1438.1	1436.1	1438.1	1440.1	1442.1	1444.1	1444.1
165°	1442.1	1446.1	1444.1	1446.1	1446.1	1446.1	1446.1	1448.2	1448.2	1448.2
167.5°	1442.1	1446.1	1444.1	1444.1	1446.1	1446.1	1448.2	1450.2	1450.2	1450.2
170°	1442.1	1444.1	1442.1	1440.1	1442.1	1442.1	1442.1	1444.1	1444.1	1444.1
172.5°	1440.1	1442.1	1438.1	1436.1	1436.1	1436.1	1434.1	1434.1	1432.1	1432.1
175°	1438.1	1438.1	1434.1	1432.1	1432.1	1432.1	1428.0	1426.0	1424.0	1422.0
177.5°	1436.1	1436.1	1430.0	1428.0	1428.0	1426.0	1426.0	1422.0	1422.0	1420.0
180°	1432.1	1432.1	1432.1	1432.1	1432.1	1432.1	1432.1	1432.1	1432.1	1432.1

(END OF REPORT)