

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: P395631

Luminaire Tested: **I3-FL-80L83050-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395631
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 (4500K)
Description: CORELITE I3, FROSTED TOP COVER
8000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7709.6 lumens
Efficiency: N/A
Efficacy: 117.9 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

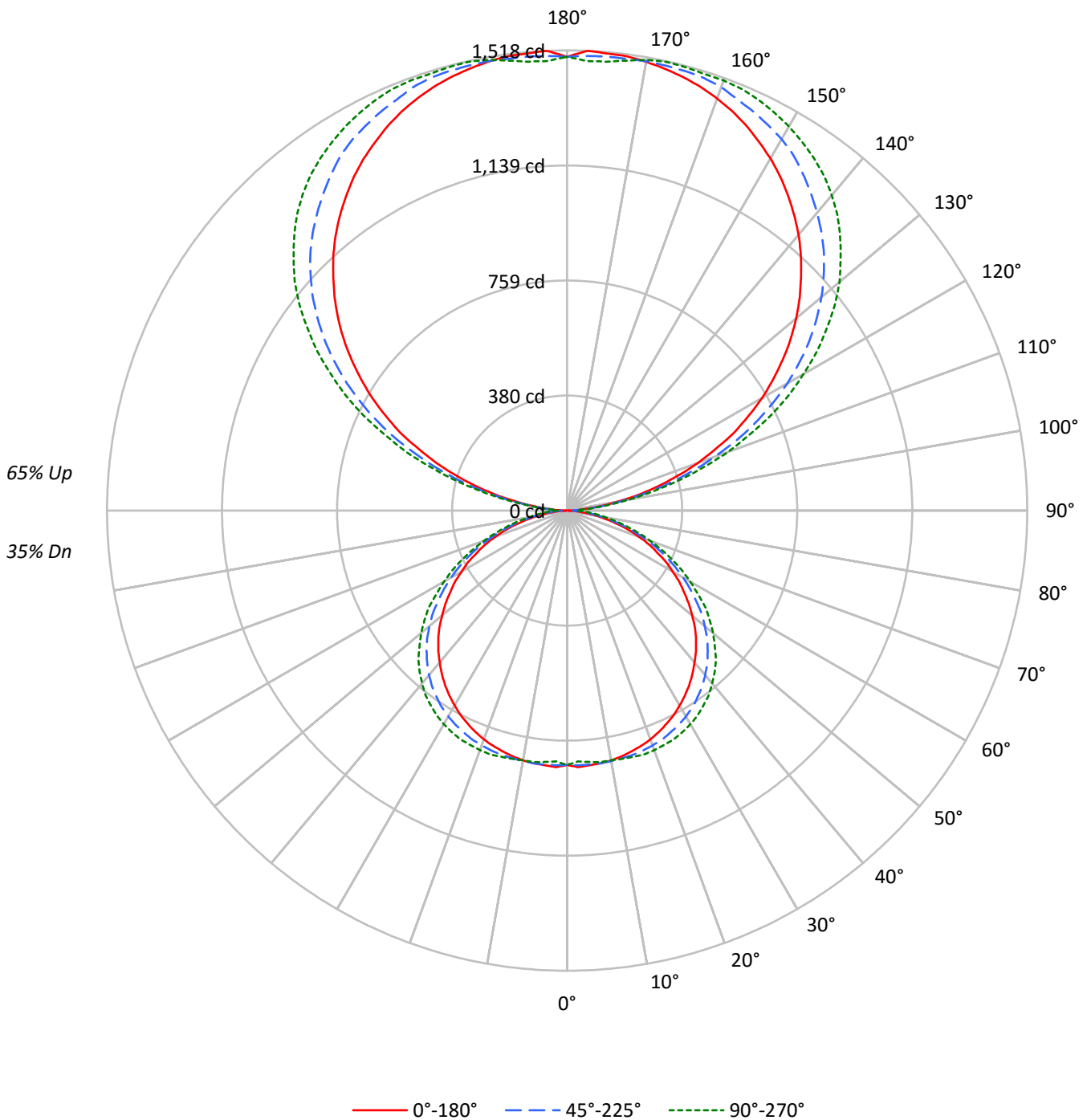
Input Watts (W): 65.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P395631

CATALOG NUMBER: I3-FL-80L83050-1D-UNV-W2A-W-4 (4500K)

Luminous Intensity Polar Plot





TEST NUMBER: P395631

CATALOG NUMBER: I3-FL-80L83050-1D-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	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°	4611	4611	4611
5°	4635	4535	4463
10°	4635	4473	4411
15°	4625	4433	4393
20°	4626	4395	4387
25°	4613	4356	4370
30°	4597	4315	4330
35°	4575	4246	4266
40°	4529	4157	4173
45°	4483	4028	4045
50°	4380	3850	3847
55°	4254	3607	3617
60°	4112	3323	3267
65°	3909	2978	2902
70°	3630	2538	2451
75°	3159	2017	1950
80°	2466	1433	1427
85°	1336	821	937



TEST NUMBER: P395631

CATALOG NUMBER: I3-FL-80L83050-1D-UNV-W2A-W-4 (4500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.0	1.0
10°-20°	235.2	3.1
20°-30°	371.0	4.8
30°-40°	466.2	6.0
40°-50°	501.3	6.5
50°-60°	461.1	6.0
60°-70°	353.3	4.6
70°-80°	201.2	2.6
80°-90°	62.8	0.8
90°-100°	84.0	1.1
100°-110°	365.4	4.7
110°-120°	668.9	8.7
120°-130°	862.2	11.2
130°-140°	917.4	11.9
140°-150°	844.1	10.9
150°-160°	668.7	8.7
160°-170°	423.4	5.5
170°-180°	143.4	1.9
0°-30°	686.2	8.9
0°-40°	1152.4	14.9
0°-60°	2114.8	27.4
0°-90°	2732.1	35.4
90°-120°	1118.3	14.5
90°-150°	3742.0	48.5
90°-180°	4977.0	64.6
0°-180°	7709.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	839	839	839	839	839	
5°	843	835	841	837	832	80
15°	822	818	835	841	841	232
25°	776	778	807	826	832	358
35°	702	711	751	776	784	439
45°	601	616	656	683	694	463
55°	471	490	519	547	557	422
65°	328	338	360	376	383	325
75°	172	177	189	200	206	182
85°	32	40	53	67	72	40
90°	2	6	19	27	32	5
95°	57	55	61	69	72	71
105°	309	324	349	370	376	329
115°	608	635	685	721	740	596
125°	868	906	976	1024	1045	775
135°	1091	1127	1198	1249	1274	842
145°	1270	1297	1356	1396	1419	795
155°	1400	1417	1453	1482	1495	645
165°	1480	1480	1501	1512	1514	418
175°	1514	1503	1503	1497	1486	144
180°	1497	1497	1497	1497	1497	



TEST NUMBER: P395631

CATALOG NUMBER: I3-FL-80L83050-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	838.9	838.9	838.9	838.9	838.9	838.9	838.9	838.9	838.9	838.9	838.9
2.5°	847.3	845.2	843.1	838.9	838.9	836.7	836.7	836.7	836.7	838.9	841.0
5°	843.1	843.1	841.0	836.7	836.7	834.6	834.6	836.7	834.6	836.7	841.0
7.5°	841.0	841.0	838.9	834.6	834.6	834.6	834.6	834.6	834.6	836.7	841.0
10°	836.7	836.7	832.5	830.4	830.4	830.4	830.4	832.5	832.5	834.6	838.9
12.5°	830.4	828.3	826.2	824.1	824.1	824.1	826.2	828.3	828.3	832.5	836.7
15°	822.0	822.0	819.9	817.8	817.8	817.8	819.9	822.0	824.1	828.3	834.6
17.5°	813.6	813.6	811.5	811.5	811.5	811.5	813.6	815.7	819.9	824.1	830.4
20°	803.1	803.1	801.0	801.0	801.0	803.1	803.1	807.3	811.5	817.8	824.1
22.5°	790.5	790.5	790.5	788.4	790.5	792.6	794.7	798.9	803.1	809.4	817.8
25°	775.8	775.8	775.8	775.8	777.9	777.9	782.1	786.3	790.5	798.9	807.3
27.5°	761.1	761.1	761.1	759.0	763.2	765.3	767.4	773.7	777.9	788.4	796.8
30°	742.1	742.1	742.1	744.2	746.3	748.4	752.7	759.0	763.2	773.7	784.2
32.5°	723.2	723.2	723.2	723.2	729.5	731.6	733.7	740.0	748.4	759.0	769.5
35°	702.2	702.2	702.2	704.3	708.5	710.6	714.8	721.1	729.5	740.0	750.6
37.5°	679.1	681.2	681.2	683.3	687.5	691.7	695.9	702.2	710.6	721.1	731.6
40°	653.8	655.9	655.9	658.0	662.3	666.5	670.7	679.1	687.5	698.0	708.5
42.5°	628.6	630.7	630.7	634.9	639.1	643.3	647.5	655.9	664.4	674.9	683.3
45°	601.3	603.4	603.4	607.6	613.9	616.0	622.3	630.7	639.1	647.5	655.9
47.5°	571.8	574.0	574.0	578.2	584.5	588.7	592.9	601.3	607.6	618.1	626.5
50°	538.2	540.3	542.4	546.6	555.0	559.2	563.4	569.7	578.2	584.5	592.9
52.5°	506.7	506.7	508.8	513.0	519.3	523.5	525.6	531.9	542.4	550.8	559.2
55°	470.9	473.0	475.1	479.3	485.7	489.9	492.0	498.3	504.6	510.9	519.3
57.5°	439.4	439.4	441.5	445.7	452.0	454.1	456.2	460.4	468.8	475.1	481.4
60°	401.6	403.7	405.8	410.0	414.2	418.4	418.4	424.7	431.0	437.3	441.5
62.5°	367.9	367.9	370.0	374.2	376.3	380.5	380.5	386.8	391.0	397.4	401.6
65°	328.0	330.1	332.2	334.3	338.5	338.5	340.6	344.8	349.0	353.2	359.5
67.5°	292.2	292.2	294.3	296.4	298.5	298.5	300.6	304.8	309.1	313.3	317.5
70°	252.3	254.4	254.4	254.4	256.5	258.6	260.7	262.8	267.0	269.1	273.3
72.5°	212.3	212.3	214.4	214.4	216.5	218.6	220.8	222.9	225.0	229.2	231.3
75°	172.4	172.4	174.5	174.5	176.6	176.6	176.6	180.8	182.9	187.1	189.2
77.5°	132.5	134.6	134.6	134.6	136.7	138.8	138.8	140.9	145.1	147.2	149.3
80°	96.7	96.7	96.7	96.7	98.8	100.9	103.0	103.0	107.2	111.4	113.5
82.5°	61.0	61.0	63.1	65.2	65.2	67.3	69.4	71.5	75.7	77.8	79.9
85°	31.5	31.5	33.6	35.7	37.8	39.9	39.9	42.0	46.3	50.5	52.6
87.5°	10.5	12.6	12.6	14.7	16.8	18.9	21.0	23.1	27.3	31.5	33.6
90°	2.1	2.1	2.1	4.2	6.3	6.3	8.4	10.5	12.6	14.7	18.9
92.5°	18.9	18.9	16.8	18.9	18.9	18.9	18.9	21.0	23.1	23.1	27.3
95°	56.8	54.7	54.7	54.7	54.7	54.7	54.7	56.8	58.9	58.9	61.0
97.5°	109.3	109.3	107.2	107.2	109.3	109.3	109.3	111.4	115.6	113.5	117.7
100°	170.3	170.3	168.2	170.3	172.4	174.5	178.7	178.7	182.9	182.9	189.2
102.5°	239.7	239.7	237.6	241.8	243.9	248.1	248.1	252.3	258.6	258.6	267.0
105°	309.1	311.2	311.2	315.4	319.6	323.8	323.8	330.1	338.5	338.5	349.0
107.5°	384.7	386.8	386.8	391.0	395.2	399.5	401.6	410.0	418.4	420.5	433.1
110°	458.3	460.4	462.5	466.7	470.9	477.2	481.4	489.9	500.4	504.6	515.1



TEST NUMBER: P395631

CATALOG NUMBER: I3-FL-80L83050-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	527.7	536.1	538.2	544.5	550.8	557.1	561.3	571.8	584.5	590.8	603.4
115°	607.6	611.8	613.9	620.2	628.6	634.9	639.1	649.6	662.3	670.7	685.4
117.5°	672.8	683.3	685.4	691.7	700.1	706.4	710.6	723.2	737.9	748.4	763.2
120°	742.1	750.6	759.0	763.2	769.5	777.9	782.1	794.7	811.5	822.0	838.9
122.5°	805.2	813.6	822.0	828.3	836.7	841.0	847.3	862.0	878.8	891.4	908.2
125°	868.3	878.8	885.1	891.4	901.9	906.1	912.4	927.2	944.0	958.7	975.5
127.5°	929.3	935.6	946.1	950.3	960.8	965.0	971.3	988.1	1004.9	1019.7	1036.5
130°	986.0	994.4	1002.8	1004.9	1017.6	1023.9	1030.2	1044.9	1063.8	1078.5	1095.3
132.5°	1040.7	1044.9	1055.4	1061.7	1072.2	1078.5	1084.8	1097.4	1116.4	1131.1	1147.9
135°	1091.1	1095.3	1108.0	1114.3	1120.6	1126.9	1135.3	1147.9	1166.8	1181.5	1198.4
137.5°	1141.6	1145.8	1158.4	1164.7	1168.9	1175.2	1181.5	1194.2	1213.1	1227.8	1242.5
140°	1187.8	1192.1	1200.5	1208.9	1213.1	1217.3	1223.6	1236.2	1253.0	1267.7	1282.5
142.5°	1229.9	1234.1	1242.5	1250.9	1257.2	1257.2	1263.5	1274.0	1293.0	1307.7	1320.3
145°	1269.8	1271.9	1280.4	1288.8	1297.2	1297.2	1299.3	1309.8	1326.6	1343.4	1356.0
147.5°	1307.7	1309.8	1316.1	1324.5	1330.8	1332.9	1337.1	1341.3	1358.1	1375.0	1389.7
150°	1341.3	1343.4	1347.6	1356.0	1360.2	1364.4	1368.7	1370.8	1383.4	1398.1	1414.9
152.5°	1370.8	1372.9	1377.1	1383.4	1387.6	1391.8	1396.0	1402.3	1408.6	1423.3	1433.8
155°	1400.2	1402.3	1404.4	1410.7	1414.9	1417.0	1419.1	1427.5	1433.8	1442.2	1452.7
157.5°	1425.4	1425.4	1427.5	1431.7	1435.9	1435.9	1438.0	1446.4	1452.7	1461.2	1467.5
160°	1446.4	1446.4	1448.5	1452.7	1452.7	1454.9	1457.0	1463.3	1467.5	1478.0	1486.4
162.5°	1465.4	1463.3	1465.4	1467.5	1467.5	1467.5	1469.6	1473.8	1480.1	1488.5	1496.9
165°	1480.1	1480.1	1480.1	1482.2	1482.2	1480.1	1480.1	1484.3	1488.5	1494.8	1501.1
167.5°	1492.7	1492.7	1490.6	1492.7	1490.6	1490.6	1488.5	1490.6	1492.7	1499.0	1503.2
170°	1503.2	1501.1	1501.1	1501.1	1499.0	1496.9	1496.9	1496.9	1496.9	1501.1	1505.3
172.5°	1511.6	1509.5	1507.4	1507.4	1503.2	1501.1	1501.1	1499.0	1499.0	1501.1	1503.2
175°	1513.7	1511.6	1509.5	1509.5	1505.3	1503.2	1501.1	1501.1	1499.0	1501.1	1503.2
177.5°	1517.9	1515.8	1511.6	1511.6	1507.4	1503.2	1503.2	1501.1	1499.0	1501.1	1501.1
180°	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9



TEST NUMBER: P395631

CATALOG NUMBER: I3-FL-80L83050-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	838.9	838.9	838.9	838.9	838.9	838.9	838.9	838.9	838.9	838.9
2.5°	843.1	843.1	841.0	838.9	838.9	836.7	834.6	832.5	830.4	828.3
5°	843.1	841.0	838.9	838.9	836.7	836.7	836.7	834.6	832.5	832.5
7.5°	843.1	843.1	841.0	838.9	838.9	838.9	838.9	838.9	836.7	836.7
10°	843.1	841.0	841.0	841.0	838.9	841.0	841.0	838.9	838.9	836.7
12.5°	841.0	841.0	841.0	841.0	841.0	841.0	841.0	841.0	841.0	838.9
15°	836.7	838.9	838.9	841.0	841.0	841.0	843.1	843.1	841.0	841.0
17.5°	834.6	836.7	838.9	841.0	841.0	841.0	843.1	843.1	843.1	843.1
20°	830.4	832.5	834.6	836.7	836.7	838.9	838.9	841.0	841.0	841.0
22.5°	822.0	824.1	828.3	830.4	832.5	834.6	836.7	836.7	836.7	836.7
25°	813.6	817.8	819.9	824.1	826.2	828.3	830.4	830.4	830.4	832.5
27.5°	803.1	807.3	813.6	815.7	817.8	819.9	822.0	824.1	824.1	824.1
30°	790.5	796.8	801.0	805.2	807.3	809.4	811.5	811.5	813.6	813.6
32.5°	775.8	782.1	786.3	790.5	792.6	794.7	798.9	798.9	801.0	801.0
35°	756.9	763.2	769.5	773.7	775.8	777.9	782.1	784.2	784.2	784.2
37.5°	737.9	744.2	750.6	756.9	759.0	761.1	765.3	765.3	767.4	767.4
40°	714.8	721.1	727.4	733.7	733.7	737.9	740.0	742.1	744.2	744.2
42.5°	691.7	698.0	702.2	708.5	710.6	712.7	714.8	719.0	719.0	721.1
45°	664.4	670.7	674.9	681.2	683.3	685.4	689.6	691.7	693.8	693.8
47.5°	634.9	639.1	643.3	649.6	653.8	655.9	658.0	660.1	662.3	660.1
50°	601.3	605.5	611.8	618.1	620.2	622.3	626.5	626.5	628.6	628.6
52.5°	565.5	571.8	576.1	582.4	584.5	586.6	590.8	590.8	592.9	592.9
55°	525.6	529.8	534.0	544.5	546.6	548.7	552.9	552.9	555.0	557.1
57.5°	487.8	489.9	496.2	500.4	504.6	504.6	506.7	508.8	510.9	510.9
60°	447.8	449.9	454.1	460.4	460.4	462.5	466.7	466.7	468.8	468.8
62.5°	405.8	410.0	414.2	420.5	418.4	420.5	424.7	424.7	426.8	426.8
65°	363.7	365.8	370.0	374.2	376.3	376.3	378.4	380.5	382.6	382.6
67.5°	319.6	323.8	325.9	332.2	330.1	332.2	334.3	334.3	336.4	336.4
70°	277.5	279.6	283.8	285.9	285.9	288.0	290.1	290.1	290.1	292.2
72.5°	235.5	237.6	239.7	241.8	241.8	243.9	246.0	246.0	248.1	248.1
75°	191.3	195.5	197.6	201.8	199.7	201.8	206.0	206.0	206.0	206.0
77.5°	153.5	155.6	159.8	161.9	161.9	161.9	166.1	164.0	166.1	166.1
80°	115.6	117.7	121.9	124.0	124.0	126.1	128.2	128.2	128.2	130.3
82.5°	82.0	86.2	90.4	92.5	92.5	94.6	96.7	96.7	98.8	98.8
85°	56.8	61.0	65.2	65.2	67.3	69.4	71.5	71.5	71.5	71.5
87.5°	37.8	39.9	42.0	44.2	46.3	46.3	48.4	48.4	50.5	50.5
90°	21.0	23.1	25.2	27.3	27.3	29.4	29.4	31.5	31.5	31.5
92.5°	29.4	29.4	31.5	33.6	33.6	33.6	33.6	35.7	35.7	35.7
95°	63.1	65.2	65.2	69.4	69.4	69.4	71.5	71.5	71.5	71.5
97.5°	121.9	121.9	121.9	126.1	126.1	126.1	128.2	128.2	128.2	130.3
100°	191.3	193.4	193.4	199.7	197.6	201.8	201.8	201.8	201.8	203.9
102.5°	269.1	273.3	275.4	281.7	281.7	281.7	285.9	283.8	285.9	285.9
105°	353.2	357.4	359.5	365.8	370.0	370.0	374.2	372.1	374.2	376.3
107.5°	437.3	443.6	447.8	454.1	458.3	460.4	460.4	462.5	464.6	466.7
110°	523.5	529.8	540.3	546.6	548.7	552.9	555.0	557.1	559.2	563.4



TEST NUMBER: P395631

CATALOG NUMBER: I3-FL-80L83050-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	613.9	620.2	628.6	637.0	634.9	641.2	645.4	647.5	649.6	647.5
115°	695.9	704.3	712.7	721.1	721.1	725.3	733.7	735.8	735.8	740.0
117.5°	773.7	784.2	792.6	801.0	803.1	807.3	813.6	819.9	819.9	824.1
120°	849.4	862.0	870.4	878.8	883.0	885.1	891.4	899.8	899.8	899.8
122.5°	920.8	931.4	941.9	950.3	954.5	958.7	962.9	973.4	973.4	977.6
125°	988.1	1000.7	1011.2	1019.7	1023.9	1028.1	1036.5	1042.8	1044.9	1044.9
127.5°	1051.2	1063.8	1074.3	1084.8	1086.9	1091.1	1099.5	1108.0	1110.1	1112.2
130°	1110.1	1122.7	1133.2	1143.7	1147.9	1150.0	1160.5	1166.8	1171.0	1173.1
132.5°	1162.6	1175.2	1185.7	1196.3	1200.5	1204.7	1211.0	1221.5	1223.6	1223.6
135°	1211.0	1223.6	1234.1	1246.7	1248.8	1253.0	1261.4	1267.7	1271.9	1274.0
137.5°	1255.1	1267.7	1280.4	1290.9	1295.1	1297.2	1305.6	1314.0	1318.2	1320.3
140°	1295.1	1307.7	1320.3	1328.7	1330.8	1337.1	1343.4	1351.8	1356.0	1358.1
142.5°	1332.9	1343.4	1353.9	1364.4	1366.6	1370.8	1377.1	1385.5	1389.7	1391.8
145°	1366.6	1377.1	1385.5	1393.9	1396.0	1400.2	1406.5	1412.8	1417.0	1419.1
147.5°	1398.1	1406.5	1414.9	1421.2	1423.3	1427.5	1431.7	1435.9	1440.1	1442.2
150°	1425.4	1429.6	1438.0	1442.2	1444.3	1448.5	1452.7	1457.0	1461.2	1463.3
152.5°	1446.4	1452.7	1457.0	1463.3	1465.4	1467.5	1471.7	1475.9	1480.1	1480.1
155°	1463.3	1469.6	1473.8	1480.1	1482.2	1484.3	1488.5	1490.6	1494.8	1494.8
157.5°	1475.9	1482.2	1486.4	1490.6	1492.7	1494.8	1496.9	1501.1	1505.3	1505.3
160°	1490.6	1492.7	1494.8	1499.0	1499.0	1501.1	1503.2	1505.3	1509.5	1509.5
162.5°	1503.2	1505.3	1501.1	1503.2	1501.1	1503.2	1505.3	1507.4	1509.5	1509.5
165°	1507.4	1511.6	1509.5	1511.6	1511.6	1511.6	1511.6	1513.7	1513.7	1513.7
167.5°	1507.4	1511.6	1509.5	1509.5	1511.6	1511.6	1513.7	1515.8	1515.8	1515.8
170°	1507.4	1509.5	1507.4	1505.3	1507.4	1507.4	1507.4	1509.5	1509.5	1509.5
172.5°	1505.3	1507.4	1503.2	1501.1	1501.1	1501.1	1499.0	1499.0	1496.9	1496.9
175°	1503.2	1503.2	1499.0	1496.9	1496.9	1496.9	1492.7	1490.6	1488.5	1486.4
177.5°	1501.1	1501.1	1494.8	1492.7	1492.7	1490.6	1490.6	1486.4	1486.4	1484.3
180°	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9

(END OF REPORT)