

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: P395630

Luminaire Tested: **I3-FL-80L83050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395630
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 (4000K)
Description: CORELITE I3, FROSTED TOP COVER
8000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7644.3 lumens
Efficiency: N/A
Efficacy: 120.0 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

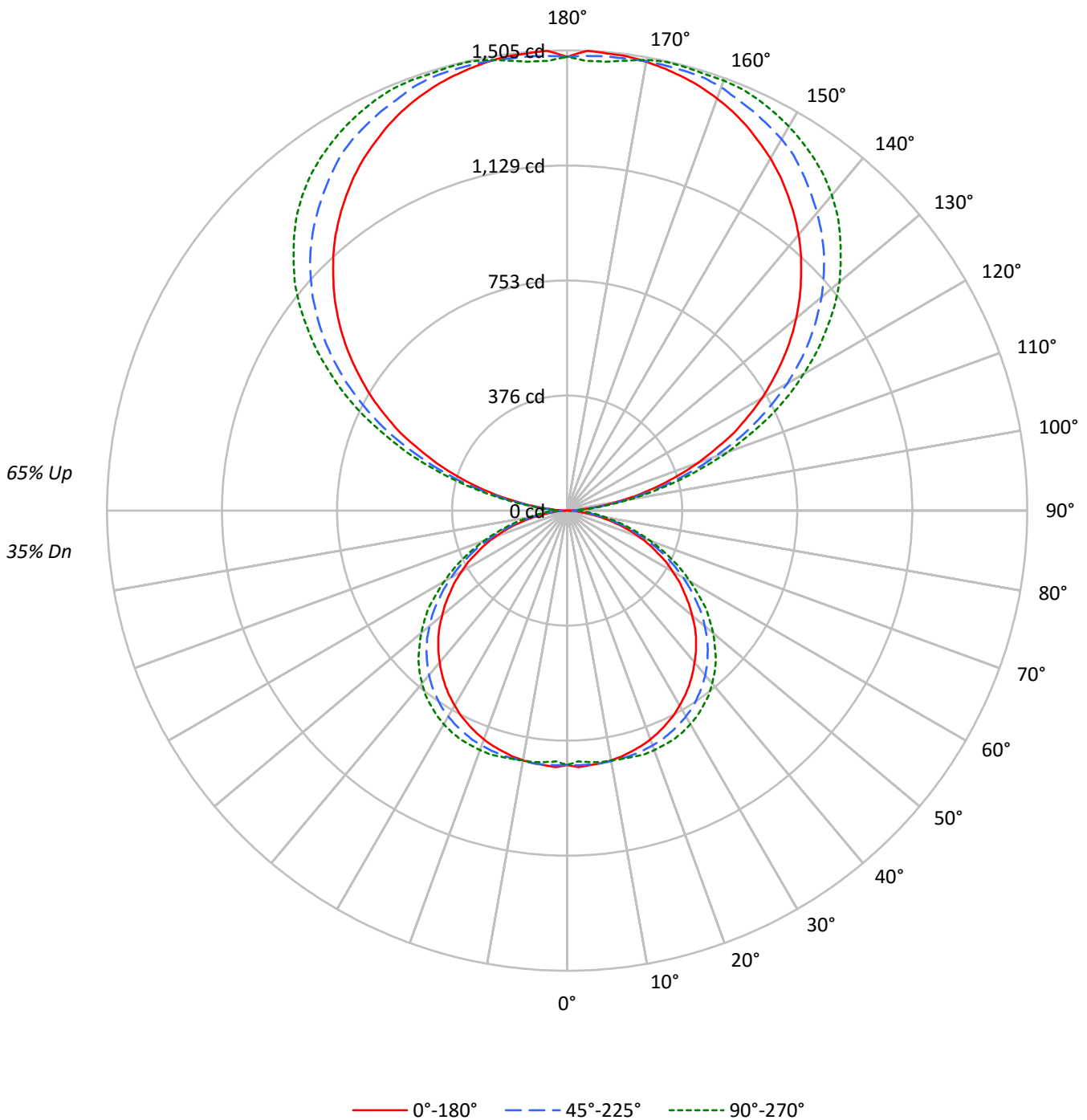
Input Watts (W): 63.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P395630

CATALOG NUMBER: I3-FL-80L83050-1D-UNV-W2A-W-4 (4000K)

Luminous Intensity Polar Plot





TEST NUMBER: P395630

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4571	4571	4571
5°	4595	4496	4426
10°	4596	4434	4374
15°	4586	4396	4356
20°	4587	4358	4349
25°	4574	4319	4333
30°	4559	4278	4294
35°	4536	4210	4230
40°	4491	4121	4137
45°	4445	3994	4010
50°	4343	3817	3815
55°	4218	3577	3586
60°	4077	3296	3240
65°	3876	2953	2877
70°	3599	2517	2431
75°	3132	2000	1933
80°	2445	1421	1415
85°	1328	814	930



TEST NUMBER: P395630

CATALOG NUMBER: I3-FL-80L83050-1D-UNV-W2A-W-4 (4000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.3	1.0
10°-20°	233.2	3.1
20°-30°	367.8	4.8
30°-40°	462.3	6.0
40°-50°	497.1	6.5
50°-60°	457.2	6.0
60°-70°	350.3	4.6
70°-80°	199.5	2.6
80°-90°	62.3	0.8
90°-100°	83.3	1.1
100°-110°	362.3	4.7
110°-120°	663.2	8.7
120°-130°	854.9	11.2
130°-140°	909.7	11.9
140°-150°	836.9	10.9
150°-160°	663.0	8.7
160°-170°	419.8	5.5
170°-180°	142.1	1.9
0°-30°	680.4	8.9
0°-40°	1142.6	14.9
0°-60°	2096.9	27.4
0°-90°	2709.0	35.4
90°-120°	1108.8	14.5
90°-150°	3710.3	48.5
90°-180°	4935.0	64.6
0°-180°	7644.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	832	832	832	832	832	
5°	836	828	834	830	826	80
15°	815	811	828	834	834	230
25°	769	771	800	819	826	355
35°	696	705	744	769	778	435
45°	596	611	650	678	688	459
55°	467	486	515	542	552	418
65°	325	336	356	373	379	323
75°	171	175	188	198	204	181
85°	31	40	52	67	71	39
90°	2	6	19	27	31	5
95°	56	54	60	69	71	70
105°	306	321	346	367	373	326
115°	602	630	680	715	734	591
125°	861	898	967	1015	1036	769
135°	1082	1117	1188	1238	1263	835
145°	1259	1286	1344	1384	1407	788
155°	1388	1405	1440	1470	1482	640
165°	1468	1468	1488	1499	1501	415
175°	1501	1490	1490	1484	1474	143
180°	1484	1484	1484	1484	1484	



TEST NUMBER: P395630

CATALOG NUMBER: I3-FL-80L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	831.7	831.7	831.7	831.7	831.7	831.7	831.7	831.7	831.7	831.7	831.7
2.5°	840.1	838.0	835.9	831.7	831.7	829.7	829.7	829.7	829.7	831.7	833.8
5°	835.9	835.9	833.8	829.7	829.7	827.6	827.6	829.7	827.6	829.7	833.8
7.5°	833.8	833.8	831.7	827.6	827.6	827.6	827.6	827.6	827.6	829.7	833.8
10°	829.7	829.7	825.5	823.4	823.4	823.4	823.4	825.5	825.5	827.6	831.7
12.5°	823.4	821.3	819.2	817.2	817.2	817.2	819.2	821.3	821.3	825.5	829.7
15°	815.1	815.1	813.0	810.9	810.9	810.9	813.0	815.1	817.2	821.3	827.6
17.5°	806.7	806.7	804.6	804.6	804.6	804.6	806.7	808.8	813.0	817.2	823.4
20°	796.3	796.3	794.2	794.2	794.2	796.3	796.3	800.5	804.6	810.9	817.2
22.5°	783.8	783.8	783.8	781.7	783.8	785.9	788.0	792.1	796.3	802.6	810.9
25°	769.2	769.2	769.2	769.2	771.3	771.3	775.5	779.6	783.8	792.1	800.5
27.5°	754.6	754.6	754.6	752.5	756.7	758.8	760.9	767.1	771.3	781.7	790.1
30°	735.9	735.9	735.9	737.9	740.0	742.1	746.3	752.5	756.7	767.1	777.5
32.5°	717.1	717.1	717.1	717.1	723.3	725.4	727.5	733.8	742.1	752.5	763.0
35°	696.2	696.2	696.2	698.3	702.5	704.6	708.8	715.0	723.3	733.8	744.2
37.5°	673.3	675.4	675.4	677.5	681.7	685.8	690.0	696.2	704.6	715.0	725.4
40°	648.3	650.4	650.4	652.5	656.6	660.8	665.0	673.3	681.7	692.1	702.5
42.5°	623.3	625.4	625.4	629.5	633.7	637.9	642.0	650.4	658.7	669.1	677.5
45°	596.2	598.3	598.3	602.4	608.7	610.8	617.0	625.4	633.7	642.0	650.4
47.5°	567.0	569.1	569.1	573.3	579.5	583.7	587.8	596.2	602.4	612.9	621.2
50°	533.6	535.7	537.8	542.0	550.3	554.5	558.7	564.9	573.3	579.5	587.8
52.5°	502.4	502.4	504.5	508.6	514.9	519.1	521.1	527.4	537.8	546.2	554.5
55°	466.9	469.0	471.1	475.3	481.5	485.7	487.8	494.0	500.3	506.6	514.9
57.5°	435.7	435.7	437.8	441.9	448.2	450.3	452.4	456.5	464.9	471.1	477.4
60°	398.2	400.2	402.3	406.5	410.7	414.8	414.8	421.1	427.3	433.6	437.8
62.5°	364.8	364.8	366.9	371.1	373.1	377.3	377.3	383.6	387.7	394.0	398.2
65°	325.2	327.3	329.4	331.4	335.6	335.6	337.7	341.9	346.0	350.2	356.5
67.5°	289.8	289.8	291.8	293.9	296.0	296.0	298.1	302.3	306.4	310.6	314.8
70°	250.1	252.2	252.2	252.2	254.3	256.4	258.5	260.6	264.7	266.8	271.0
72.5°	210.5	210.5	212.6	212.6	214.7	216.8	218.9	221.0	223.0	227.2	229.3
75°	170.9	170.9	173.0	173.0	175.1	175.1	175.1	179.3	181.4	185.5	187.6
77.5°	131.3	133.4	133.4	133.4	135.5	137.6	137.6	139.7	143.8	145.9	148.0
80°	95.9	95.9	95.9	95.9	98.0	100.1	102.1	102.1	106.3	110.5	112.6
82.5°	60.5	60.5	62.5	64.6	64.6	66.7	68.8	70.9	75.0	77.1	79.2
85°	31.3	31.3	33.4	35.4	37.5	39.6	39.6	41.7	45.9	50.0	52.1
87.5°	10.4	12.5	12.5	14.6	16.7	18.8	20.8	22.9	27.1	31.3	33.4
90°	2.1	2.1	2.1	4.2	6.3	6.3	8.3	10.4	12.5	14.6	18.8
92.5°	18.8	18.8	16.7	18.8	18.8	18.8	18.8	20.8	22.9	22.9	27.1
95°	56.3	54.2	54.2	54.2	54.2	54.2	54.2	56.3	58.4	58.4	60.5
97.5°	108.4	108.4	106.3	106.3	108.4	108.4	108.4	110.5	114.7	112.6	116.7
100°	168.9	168.9	166.8	168.9	170.9	173.0	177.2	177.2	181.4	181.4	187.6
102.5°	237.6	237.6	235.6	239.7	241.8	246.0	246.0	250.1	256.4	256.4	264.7
105°	306.4	308.5	308.5	312.7	316.9	321.0	321.0	327.3	335.6	335.6	346.0
107.5°	381.5	383.6	383.6	387.7	391.9	396.1	398.2	406.5	414.8	416.9	429.4
110°	454.4	456.5	458.6	462.8	466.9	473.2	477.4	485.7	496.1	500.3	510.7



TEST NUMBER: P395630

CATALOG NUMBER: I3-FL-80L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	523.2	531.6	533.6	539.9	546.2	552.4	556.6	567.0	579.5	585.8	598.3
115°	602.4	606.6	608.7	614.9	623.3	629.5	633.7	644.1	656.6	665.0	679.6
117.5°	667.1	677.5	679.6	685.8	694.2	700.4	704.6	717.1	731.7	742.1	756.7
120°	735.9	744.2	752.5	756.7	763.0	771.3	775.5	788.0	804.6	815.1	831.7
122.5°	798.4	806.7	815.1	821.3	829.7	833.8	840.1	854.7	871.3	883.9	900.5
125°	860.9	871.3	877.6	883.9	894.3	898.4	904.7	919.3	936.0	950.6	967.2
127.5°	921.4	927.6	938.1	942.2	952.6	956.8	963.1	979.7	996.4	1011.0	1027.7
130°	977.7	986.0	994.3	996.4	1008.9	1015.2	1021.4	1036.0	1054.8	1069.4	1086.1
132.5°	1031.9	1036.0	1046.5	1052.7	1063.1	1069.4	1075.6	1088.1	1106.9	1121.5	1138.2
135°	1081.9	1086.1	1098.6	1104.8	1111.1	1117.3	1125.7	1138.2	1156.9	1171.5	1188.2
137.5°	1131.9	1136.1	1148.6	1154.9	1159.0	1165.3	1171.5	1184.0	1202.8	1217.4	1232.0
140°	1177.8	1182.0	1190.3	1198.6	1202.8	1207.0	1213.2	1225.7	1242.4	1257.0	1271.6
142.5°	1219.5	1223.6	1232.0	1240.3	1246.6	1246.6	1252.8	1263.2	1282.0	1296.6	1309.1
145°	1259.1	1261.2	1269.5	1277.8	1286.2	1286.2	1288.3	1298.7	1315.4	1332.0	1344.5
147.5°	1296.6	1298.7	1304.9	1313.3	1319.5	1321.6	1325.8	1330.0	1346.6	1363.3	1377.9
150°	1330.0	1332.0	1336.2	1344.5	1348.7	1352.9	1357.1	1359.1	1371.6	1386.2	1402.9
152.5°	1359.1	1361.2	1365.4	1371.6	1375.8	1380.0	1384.2	1390.4	1396.7	1411.3	1421.7
155°	1388.3	1390.4	1392.5	1398.7	1402.9	1405.0	1407.1	1415.4	1421.7	1430.0	1440.4
157.5°	1413.3	1413.3	1415.4	1419.6	1423.8	1423.8	1425.8	1434.2	1440.4	1448.8	1455.0
160°	1434.2	1434.2	1436.3	1440.4	1440.4	1442.5	1444.6	1450.9	1455.0	1465.5	1473.8
162.5°	1452.9	1450.9	1452.9	1455.0	1455.0	1455.0	1457.1	1461.3	1467.5	1475.9	1484.2
165°	1467.5	1467.5	1467.5	1469.6	1469.6	1467.5	1467.5	1471.7	1475.9	1482.1	1488.4
167.5°	1480.0	1480.0	1478.0	1480.0	1478.0	1478.0	1475.9	1478.0	1480.0	1486.3	1490.5
170°	1490.5	1488.4	1488.4	1488.4	1486.3	1484.2	1484.2	1484.2	1484.2	1488.4	1492.6
172.5°	1498.8	1496.7	1494.6	1494.6	1490.5	1488.4	1488.4	1486.3	1486.3	1488.4	1490.5
175°	1500.9	1498.8	1496.7	1496.7	1492.6	1490.5	1488.4	1488.4	1486.3	1488.4	1490.5
177.5°	1505.1	1503.0	1498.8	1498.8	1494.6	1490.5	1490.5	1488.4	1486.3	1488.4	1488.4
180°	1484.2	1484.2	1484.2	1484.2	1484.2	1484.2	1484.2	1484.2	1484.2	1484.2	1484.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	831.7	831.7	831.7	831.7	831.7	831.7	831.7	831.7	831.7	831.7
2.5°	835.9	835.9	833.8	831.7	831.7	829.7	827.6	825.5	823.4	821.3
5°	835.9	833.8	831.7	831.7	829.7	829.7	829.7	827.6	825.5	825.5
7.5°	835.9	835.9	833.8	831.7	831.7	831.7	831.7	831.7	829.7	829.7
10°	835.9	833.8	833.8	833.8	831.7	833.8	833.8	831.7	831.7	829.7
12.5°	833.8	833.8	833.8	833.8	833.8	833.8	833.8	833.8	833.8	831.7
15°	829.7	831.7	831.7	833.8	833.8	833.8	835.9	835.9	833.8	833.8
17.5°	827.6	829.7	831.7	833.8	833.8	833.8	835.9	835.9	835.9	835.9
20°	823.4	825.5	827.6	829.7	829.7	831.7	831.7	833.8	833.8	833.8
22.5°	815.1	817.2	821.3	823.4	825.5	827.6	829.7	829.7	829.7	829.7
25°	806.7	810.9	813.0	817.2	819.2	821.3	823.4	823.4	823.4	825.5
27.5°	796.3	800.5	806.7	808.8	810.9	813.0	815.1	817.2	817.2	817.2
30°	783.8	790.1	794.2	798.4	800.5	802.6	804.6	804.6	806.7	806.7
32.5°	769.2	775.5	779.6	783.8	785.9	788.0	792.1	792.1	794.2	794.2
35°	750.4	756.7	763.0	767.1	769.2	771.3	775.5	777.5	777.5	777.5
37.5°	731.7	737.9	744.2	750.4	752.5	754.6	758.8	758.8	760.9	760.9
40°	708.8	715.0	721.3	727.5	727.5	731.7	733.8	735.9	737.9	737.9
42.5°	685.8	692.1	696.2	702.5	704.6	706.7	708.8	712.9	712.9	715.0
45°	658.7	665.0	669.1	675.4	677.5	679.6	683.7	685.8	687.9	687.9
47.5°	629.5	633.7	637.9	644.1	648.3	650.4	652.5	654.6	656.6	654.6
50°	596.2	600.4	606.6	612.9	614.9	617.0	621.2	621.2	623.3	623.3
52.5°	560.7	567.0	571.2	577.4	579.5	581.6	585.8	585.8	587.8	587.8
55°	521.1	525.3	529.5	539.9	542.0	544.1	548.2	548.2	550.3	552.4
57.5°	483.6	485.7	492.0	496.1	500.3	500.3	502.4	504.5	506.6	506.6
60°	444.0	446.1	450.3	456.5	456.5	458.6	462.8	462.8	464.9	464.9
62.5°	402.3	406.5	410.7	416.9	414.8	416.9	421.1	421.1	423.2	423.2
65°	360.6	362.7	366.9	371.1	373.1	373.1	375.2	377.3	379.4	379.4
67.5°	316.9	321.0	323.1	329.4	327.3	329.4	331.4	331.4	333.5	333.5
70°	275.2	277.2	281.4	283.5	283.5	285.6	287.7	287.7	287.7	289.8
72.5°	233.5	235.6	237.6	239.7	239.7	241.8	243.9	243.9	246.0	246.0
75°	189.7	193.9	195.9	200.1	198.0	200.1	204.3	204.3	204.3	204.3
77.5°	152.2	154.3	158.4	160.5	160.5	160.5	164.7	162.6	164.7	164.7
80°	114.7	116.7	120.9	123.0	123.0	125.1	127.2	127.2	127.2	129.2
82.5°	81.3	85.5	89.6	91.7	91.7	93.8	95.9	95.9	98.0	98.0
85°	56.3	60.5	64.6	64.6	66.7	68.8	70.9	70.9	70.9	70.9
87.5°	37.5	39.6	41.7	43.8	45.9	45.9	47.9	47.9	50.0	50.0
90°	20.8	22.9	25.0	27.1	27.1	29.2	29.2	31.3	31.3	31.3
92.5°	29.2	29.2	31.3	33.4	33.4	33.4	33.4	35.4	35.4	35.4
95°	62.5	64.6	64.6	68.8	68.8	68.8	70.9	70.9	70.9	70.9
97.5°	120.9	120.9	120.9	125.1	125.1	125.1	127.2	127.2	127.2	129.2
100°	189.7	191.8	191.8	198.0	195.9	200.1	200.1	200.1	200.1	202.2
102.5°	266.8	271.0	273.1	279.3	279.3	279.3	283.5	281.4	283.5	283.5
105°	350.2	354.4	356.5	362.7	366.9	366.9	371.1	369.0	371.1	373.1
107.5°	433.6	439.8	444.0	450.3	454.4	456.5	456.5	458.6	460.7	462.8
110°	519.1	525.3	535.7	542.0	544.1	548.2	550.3	552.4	554.5	558.7



TEST NUMBER: P395630

CATALOG NUMBER: I3-FL-80L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	608.7	614.9	623.3	631.6	629.5	635.8	640.0	642.0	644.1	642.0
115°	690.0	698.3	706.7	715.0	715.0	719.2	727.5	729.6	729.6	733.8
117.5°	767.1	777.5	785.9	794.2	796.3	800.5	806.7	813.0	813.0	817.2
120°	842.2	854.7	863.0	871.3	875.5	877.6	883.9	892.2	892.2	892.2
122.5°	913.0	923.5	933.9	942.2	946.4	950.6	954.7	965.2	965.2	969.3
125°	979.7	992.3	1002.7	1011.0	1015.2	1019.4	1027.7	1033.9	1036.0	1036.0
127.5°	1042.3	1054.8	1065.2	1075.6	1077.7	1081.9	1090.2	1098.6	1100.7	1102.7
130°	1100.7	1113.2	1123.6	1134.0	1138.2	1140.3	1150.7	1156.9	1161.1	1163.2
132.5°	1152.8	1165.3	1175.7	1186.1	1190.3	1194.5	1200.7	1211.1	1213.2	1213.2
135°	1200.7	1213.2	1223.6	1236.1	1238.2	1242.4	1250.7	1257.0	1261.2	1263.2
137.5°	1244.5	1257.0	1269.5	1279.9	1284.1	1286.2	1294.5	1302.9	1307.0	1309.1
140°	1284.1	1296.6	1309.1	1317.4	1319.5	1325.8	1332.0	1340.4	1344.5	1346.6
142.5°	1321.6	1332.0	1342.5	1352.9	1355.0	1359.1	1365.4	1373.7	1377.9	1380.0
145°	1355.0	1365.4	1373.7	1382.1	1384.2	1388.3	1394.6	1400.8	1405.0	1407.1
147.5°	1386.2	1394.6	1402.9	1409.2	1411.3	1415.4	1419.6	1423.8	1427.9	1430.0
150°	1413.3	1417.5	1425.8	1430.0	1432.1	1436.3	1440.4	1444.6	1448.8	1450.9
152.5°	1434.2	1440.4	1444.6	1450.9	1452.9	1455.0	1459.2	1463.4	1467.5	1467.5
155°	1450.9	1457.1	1461.3	1467.5	1469.6	1471.7	1475.9	1478.0	1482.1	1482.1
157.5°	1463.4	1469.6	1473.8	1478.0	1480.0	1482.1	1484.2	1488.4	1492.6	1492.6
160°	1478.0	1480.0	1482.1	1486.3	1486.3	1488.4	1490.5	1492.6	1496.7	1496.7
162.5°	1490.5	1492.6	1488.4	1490.5	1488.4	1490.5	1492.6	1494.6	1496.7	1496.7
165°	1494.6	1498.8	1496.7	1498.8	1498.8	1498.8	1498.8	1500.9	1500.9	1500.9
167.5°	1494.6	1498.8	1496.7	1496.7	1498.8	1498.8	1500.9	1503.0	1503.0	1503.0
170°	1494.6	1496.7	1494.6	1492.6	1494.6	1494.6	1494.6	1496.7	1496.7	1496.7
172.5°	1492.6	1494.6	1490.5	1488.4	1488.4	1488.4	1486.3	1486.3	1484.2	1484.2
175°	1490.5	1490.5	1486.3	1484.2	1484.2	1484.2	1480.0	1478.0	1475.9	1473.8
177.5°	1488.4	1488.4	1482.1	1480.0	1480.0	1478.0	1478.0	1473.8	1473.8	1471.7
180°	1484.2	1484.2	1484.2	1484.2	1484.2	1484.2	1484.2	1484.2	1484.2	1484.2

(END OF REPORT)