

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: P395629

Luminaire Tested: **I3-FL-80L83050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395629
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 (3500K)
Description: CORELITE I3, FROSTED TOP COVER
8000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7259.5 lumens
Efficiency: N/A
Efficacy: 116.5 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

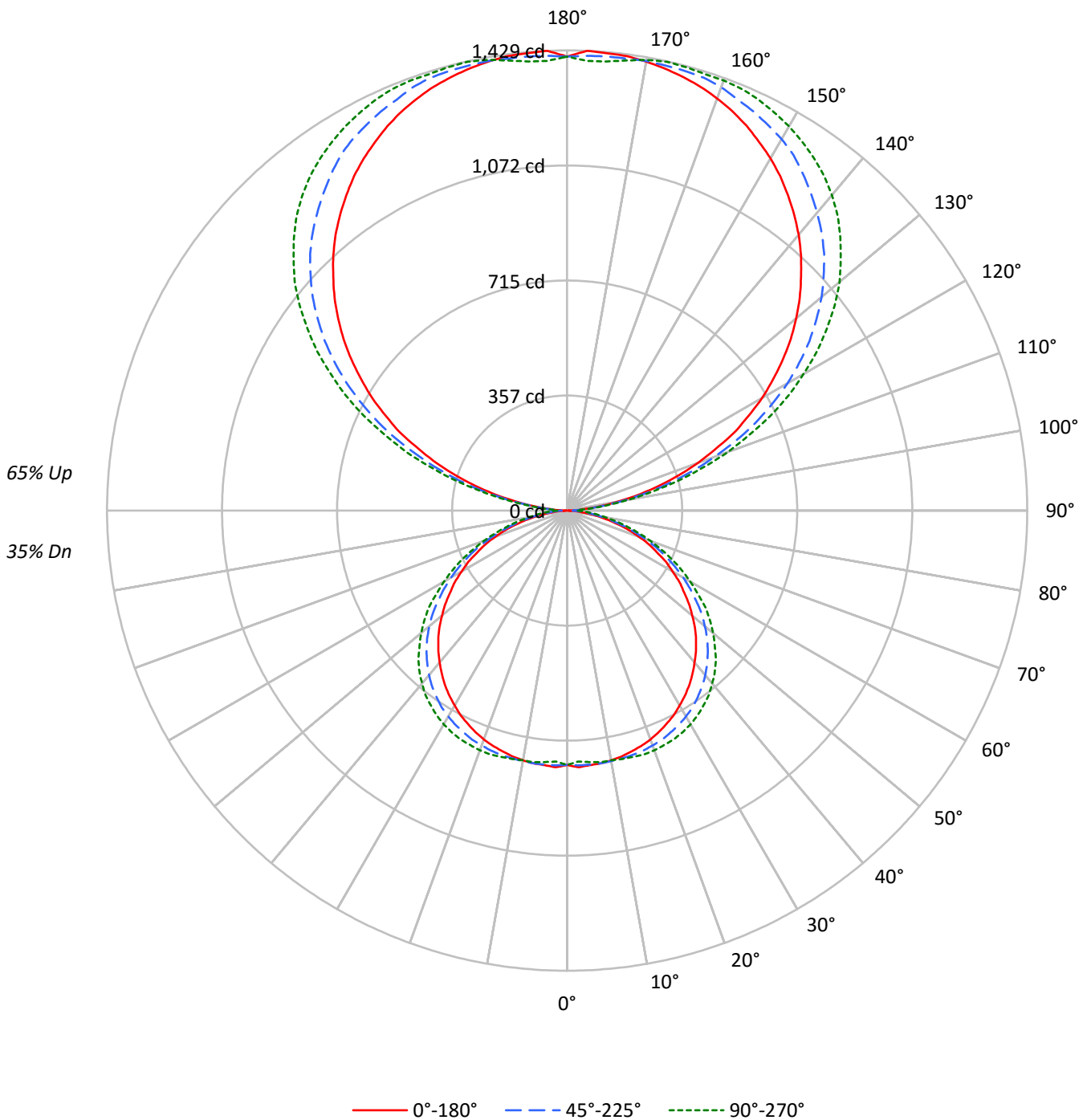
Input Watts (W): 62.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4342	4342	4342
5°	4364	4270	4203
10°	4365	4211	4153
15°	4355	4175	4137
20°	4356	4139	4131
25°	4344	4102	4115
30°	4329	4063	4078
35°	4308	3998	4017
40°	4265	3914	3929
45°	4222	3793	3809
50°	4124	3626	3622
55°	4006	3397	3406
60°	3871	3129	3077
65°	3680	2804	2733
70°	3419	2391	2308
75°	2974	1900	1836
80°	2323	1349	1344
85°	1260	773	882



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CATALOG NUMBER: I3-FL-80L83050-1D-UNV-W2A-W-4 (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.3	1.0
10°-20°	221.5	3.1
20°-30°	349.3	4.8
30°-40°	439.0	6.0
40°-50°	472.0	6.5
50°-60°	434.2	6.0
60°-70°	332.7	4.6
70°-80°	189.4	2.6
80°-90°	59.2	0.8
90°-100°	79.1	1.1
100°-110°	344.0	4.7
110°-120°	629.9	8.7
120°-130°	811.9	11.2
130°-140°	863.9	11.9
140°-150°	794.8	10.9
150°-160°	629.7	8.7
160°-170°	398.7	5.5
170°-180°	135.0	1.9
0°-30°	646.1	8.9
0°-40°	1085.1	14.9
0°-60°	1991.4	27.4
0°-90°	2572.6	35.4
90°-120°	1053.0	14.5
90°-150°	3523.5	48.5
90°-180°	4687.0	64.6
0°-180°	7259.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	790	790	790	790	790	
5°	794	786	792	788	784	76
15°	774	770	786	792	792	219
25°	730	732	760	778	784	337
35°	661	669	707	730	738	413
45°	566	580	618	643	653	436
55°	443	461	489	515	525	397
65°	309	319	338	354	360	306
75°	162	166	178	188	194	172
85°	30	38	50	63	67	37
90°	2	6	18	26	30	4
95°	54	52	57	65	67	67
105°	291	305	329	348	354	310
115°	572	598	645	679	697	561
125°	818	853	919	964	984	730
135°	1027	1061	1128	1176	1200	793
145°	1196	1221	1277	1314	1336	748
155°	1318	1334	1368	1396	1408	608
165°	1394	1394	1414	1423	1425	394
175°	1425	1415	1415	1410	1400	136
180°	1410	1410	1410	1410	1410	



TEST NUMBER: P395629

CATALOG NUMBER: I3-FL-80L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	789.9	789.9	789.9	789.9	789.9	789.9	789.9	789.9	789.9	789.9	789.9
2.5°	797.8	795.8	793.8	789.9	789.9	787.9	787.9	787.9	787.9	789.9	791.9
5°	793.8	793.8	791.9	787.9	787.9	785.9	785.9	787.9	785.9	787.9	791.9
7.5°	791.9	791.9	789.9	785.9	785.9	785.9	785.9	785.9	785.9	787.9	791.9
10°	787.9	787.9	783.9	782.0	782.0	782.0	782.0	783.9	783.9	785.9	789.9
12.5°	782.0	780.0	778.0	776.0	776.0	776.0	778.0	780.0	780.0	783.9	787.9
15°	774.0	774.0	772.1	770.1	770.1	770.1	772.1	774.0	776.0	780.0	785.9
17.5°	766.1	766.1	764.1	764.1	764.1	764.1	766.1	768.1	772.1	776.0	782.0
20°	756.2	756.2	754.2	754.2	754.2	756.2	756.2	760.2	764.1	770.1	776.0
22.5°	744.3	744.3	744.3	742.4	744.3	746.3	748.3	752.3	756.2	762.2	770.1
25°	730.5	730.5	730.5	730.5	732.5	732.5	736.4	740.4	744.3	752.3	760.2
27.5°	716.6	716.6	716.6	714.7	718.6	720.6	722.6	728.5	732.5	742.4	750.3
30°	698.8	698.8	698.8	700.8	702.8	704.8	708.7	714.7	718.6	728.5	738.4
32.5°	681.0	681.0	681.0	681.0	686.9	688.9	690.9	696.8	704.8	714.7	724.6
35°	661.2	661.2	661.2	663.2	667.1	669.1	673.1	679.0	686.9	696.8	706.7
37.5°	639.4	641.4	641.4	643.4	647.3	651.3	655.3	661.2	669.1	679.0	688.9
40°	615.7	617.7	617.7	619.6	623.6	627.5	631.5	639.4	647.3	657.2	667.1
42.5°	591.9	593.9	593.9	597.9	601.8	605.8	609.7	617.7	625.6	635.5	643.4
45°	566.2	568.2	568.2	572.1	578.1	580.0	586.0	593.9	601.8	609.7	617.7
47.5°	538.5	540.4	540.4	544.4	550.3	554.3	558.3	566.2	572.1	582.0	589.9
50°	506.8	508.8	510.7	514.7	522.6	526.6	530.5	536.5	544.4	550.3	558.3
52.5°	477.1	477.1	479.1	483.0	489.0	492.9	494.9	500.9	510.7	518.7	526.6
55°	443.4	445.4	447.4	451.4	457.3	461.3	463.2	469.2	475.1	481.1	489.0
57.5°	413.7	413.7	415.7	419.7	425.6	427.6	429.6	433.5	441.5	447.4	453.3
60°	378.1	380.1	382.1	386.0	390.0	393.9	393.9	399.9	405.8	411.8	415.7
62.5°	346.4	346.4	348.4	352.4	354.4	358.3	358.3	364.3	368.2	374.2	378.1
65°	308.8	310.8	312.8	314.8	318.7	318.7	320.7	324.7	328.6	332.6	338.5
67.5°	275.2	275.2	277.2	279.1	281.1	281.1	283.1	287.0	291.0	295.0	298.9
70°	237.6	239.5	239.5	239.5	241.5	243.5	245.5	247.5	251.4	253.4	257.4
72.5°	199.9	199.9	201.9	201.9	203.9	205.9	207.9	209.8	211.8	215.8	217.8
75°	162.3	162.3	164.3	164.3	166.3	166.3	166.3	170.2	172.2	176.2	178.2
77.5°	124.7	126.7	126.7	126.7	128.7	130.7	130.7	132.6	136.6	138.6	140.6
80°	91.1	91.1	91.1	91.1	93.0	95.0	97.0	97.0	101.0	104.9	106.9
82.5°	57.4	57.4	59.4	61.4	61.4	63.3	65.3	67.3	71.3	73.2	75.2
85°	29.7	29.7	31.7	33.7	35.6	37.6	37.6	39.6	43.6	47.5	49.5
87.5°	9.9	11.9	11.9	13.9	15.8	17.8	19.8	21.8	25.7	29.7	31.7
90°	2.0	2.0	2.0	4.0	5.9	5.9	7.9	9.9	11.9	13.9	17.8
92.5°	17.8	17.8	15.8	17.8	17.8	17.8	17.8	19.8	21.8	21.8	25.7
95°	53.5	51.5	51.5	51.5	51.5	51.5	51.5	53.5	55.4	55.4	57.4
97.5°	102.9	102.9	101.0	101.0	102.9	102.9	102.9	104.9	108.9	106.9	110.9
100°	160.4	160.4	158.4	160.4	162.3	164.3	168.3	168.3	172.2	172.2	178.2
102.5°	225.7	225.7	223.7	227.7	229.6	233.6	233.6	237.6	243.5	243.5	251.4
105°	291.0	293.0	293.0	296.9	300.9	304.9	304.9	310.8	318.7	318.7	328.6
107.5°	362.3	364.3	364.3	368.2	372.2	376.1	378.1	386.0	393.9	395.9	407.8
110°	431.6	433.5	435.5	439.5	443.4	449.4	453.3	461.3	471.2	475.1	485.0



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CATALOG NUMBER: I3-FL-80L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	496.9	504.8	506.8	512.7	518.7	524.6	528.6	538.5	550.3	556.3	568.2
115°	572.1	576.1	578.1	584.0	591.9	597.9	601.8	611.7	623.6	631.5	645.4
117.5°	633.5	643.4	645.4	651.3	659.2	665.2	669.1	681.0	694.9	704.8	718.6
120°	698.8	706.7	714.7	718.6	724.6	732.5	736.4	748.3	764.1	774.0	789.9
122.5°	758.2	766.1	774.0	780.0	787.9	791.9	797.8	811.7	827.5	839.4	855.2
125°	817.6	827.5	833.4	839.4	849.3	853.2	859.2	873.0	888.9	902.7	918.6
127.5°	875.0	880.9	890.8	894.8	904.7	908.7	914.6	930.4	946.3	960.1	976.0
130°	928.5	936.4	944.3	946.3	958.1	964.1	970.0	983.9	1001.7	1015.6	1031.4
132.5°	979.9	983.9	993.8	999.7	1009.6	1015.6	1021.5	1033.4	1051.2	1065.1	1080.9
135°	1027.4	1031.4	1043.3	1049.2	1055.2	1061.1	1069.0	1080.9	1098.7	1112.6	1128.4
137.5°	1074.9	1078.9	1090.8	1096.7	1100.7	1106.6	1112.6	1124.4	1142.3	1156.1	1170.0
140°	1118.5	1122.5	1130.4	1138.3	1142.3	1146.2	1152.2	1164.0	1179.9	1193.7	1207.6
142.5°	1158.1	1162.1	1170.0	1177.9	1183.8	1183.8	1189.8	1199.7	1217.5	1231.3	1243.2
145°	1195.7	1197.7	1205.6	1213.5	1221.4	1221.4	1223.4	1233.3	1249.2	1265.0	1276.9
147.5°	1231.3	1233.3	1239.3	1247.2	1253.1	1255.1	1259.1	1263.0	1278.9	1294.7	1308.5
150°	1263.0	1265.0	1269.0	1276.9	1280.8	1284.8	1288.8	1290.7	1302.6	1316.5	1332.3
152.5°	1290.7	1292.7	1296.7	1302.6	1306.6	1310.5	1314.5	1320.4	1326.4	1340.2	1350.1
155°	1318.4	1320.4	1322.4	1328.3	1332.3	1334.3	1336.3	1344.2	1350.1	1358.0	1367.9
157.5°	1342.2	1342.2	1344.2	1348.1	1352.1	1352.1	1354.1	1362.0	1367.9	1375.9	1381.8
160°	1362.0	1362.0	1364.0	1367.9	1367.9	1369.9	1371.9	1377.8	1381.8	1391.7	1399.6
162.5°	1379.8	1377.8	1379.8	1381.8	1381.8	1381.8	1383.8	1387.7	1393.7	1401.6	1409.5
165°	1393.7	1393.7	1393.7	1395.7	1395.7	1393.7	1393.7	1397.6	1401.6	1407.5	1413.5
167.5°	1405.5	1405.5	1403.6	1405.5	1403.6	1403.6	1401.6	1403.6	1405.5	1411.5	1415.4
170°	1415.4	1413.5	1413.5	1413.5	1411.5	1409.5	1409.5	1409.5	1409.5	1413.5	1417.4
172.5°	1423.4	1421.4	1419.4	1419.4	1415.4	1413.5	1413.5	1411.5	1411.5	1413.5	1415.4
175°	1425.3	1423.4	1421.4	1421.4	1417.4	1415.4	1413.5	1413.5	1411.5	1413.5	1415.4
177.5°	1429.3	1427.3	1423.4	1423.4	1419.4	1415.4	1415.4	1413.5	1411.5	1413.5	1413.5
180°	1409.5	1409.5	1409.5	1409.5	1409.5	1409.5	1409.5	1409.5	1409.5	1409.5	1409.5



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CATALOG NUMBER: I3-FL-80L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	789.9	789.9	789.9	789.9	789.9	789.9	789.9	789.9	789.9	789.9
2.5°	793.8	793.8	791.9	789.9	789.9	787.9	785.9	783.9	782.0	780.0
5°	793.8	791.9	789.9	789.9	787.9	787.9	787.9	785.9	783.9	783.9
7.5°	793.8	793.8	791.9	789.9	789.9	789.9	789.9	789.9	787.9	787.9
10°	793.8	791.9	791.9	791.9	789.9	791.9	791.9	789.9	789.9	787.9
12.5°	791.9	791.9	791.9	791.9	791.9	791.9	791.9	791.9	791.9	789.9
15°	787.9	789.9	789.9	791.9	791.9	791.9	793.8	793.8	791.9	791.9
17.5°	785.9	787.9	789.9	791.9	791.9	791.9	793.8	793.8	793.8	793.8
20°	782.0	783.9	785.9	787.9	787.9	789.9	789.9	791.9	791.9	791.9
22.5°	774.0	776.0	780.0	782.0	783.9	785.9	787.9	787.9	787.9	787.9
25°	766.1	770.1	772.1	776.0	778.0	780.0	782.0	782.0	782.0	783.9
27.5°	756.2	760.2	766.1	768.1	770.1	772.1	774.0	776.0	776.0	776.0
30°	744.3	750.3	754.2	758.2	760.2	762.2	764.1	764.1	766.1	766.1
32.5°	730.5	736.4	740.4	744.3	746.3	748.3	752.3	752.3	754.2	754.2
35°	712.7	718.6	724.6	728.5	730.5	732.5	736.4	738.4	738.4	738.4
37.5°	694.9	700.8	706.7	712.7	714.7	716.6	720.6	720.6	722.6	722.6
40°	673.1	679.0	685.0	690.9	690.9	694.9	696.8	698.8	700.8	700.8
42.5°	651.3	657.2	661.2	667.1	669.1	671.1	673.1	677.0	677.0	679.0
45°	625.6	631.5	635.5	641.4	643.4	645.4	649.3	651.3	653.3	653.3
47.5°	597.9	601.8	605.8	611.7	615.7	617.7	619.6	621.6	623.6	621.6
50°	566.2	570.1	576.1	582.0	584.0	586.0	589.9	589.9	591.9	591.9
52.5°	532.5	538.5	542.4	548.4	550.3	552.3	556.3	556.3	558.3	558.3
55°	494.9	498.9	502.8	512.7	514.7	516.7	520.6	520.6	522.6	524.6
57.5°	459.3	461.3	467.2	471.2	475.1	475.1	477.1	479.1	481.1	481.1
60°	421.7	423.6	427.6	433.5	433.5	435.5	439.5	439.5	441.5	441.5
62.5°	382.1	386.0	390.0	395.9	393.9	395.9	399.9	399.9	401.9	401.9
65°	342.5	344.5	348.4	352.4	354.4	354.4	356.3	358.3	360.3	360.3
67.5°	300.9	304.9	306.8	312.8	310.8	312.8	314.8	314.8	316.7	316.7
70°	261.3	263.3	267.3	269.2	269.2	271.2	273.2	273.2	273.2	275.2
72.5°	221.7	223.7	225.7	227.7	227.7	229.6	231.6	231.6	233.6	233.6
75°	180.1	184.1	186.1	190.0	188.1	190.0	194.0	194.0	194.0	194.0
77.5°	144.5	146.5	150.5	152.4	152.4	152.4	156.4	154.4	156.4	156.4
80°	108.9	110.9	114.8	116.8	116.8	118.8	120.8	120.8	120.8	122.7
82.5°	77.2	81.2	85.1	87.1	87.1	89.1	91.1	91.1	93.0	93.0
85°	53.5	57.4	61.4	61.4	63.3	65.3	67.3	67.3	67.3	67.3
87.5°	35.6	37.6	39.6	41.6	43.6	43.6	45.5	45.5	47.5	47.5
90°	19.8	21.8	23.8	25.7	25.7	27.7	27.7	29.7	29.7	29.7
92.5°	27.7	27.7	29.7	31.7	31.7	31.7	31.7	33.7	33.7	33.7
95°	59.4	61.4	61.4	65.3	65.3	65.3	67.3	67.3	67.3	67.3
97.5°	114.8	114.8	114.8	118.8	118.8	118.8	120.8	120.8	120.8	122.7
100°	180.1	182.1	182.1	188.1	186.1	190.0	190.0	190.0	190.0	192.0
102.5°	253.4	257.4	259.3	265.3	265.3	265.3	269.2	267.3	269.2	269.2
105°	332.6	336.5	338.5	344.5	348.4	348.4	352.4	350.4	352.4	354.4
107.5°	411.8	417.7	421.7	427.6	431.6	433.5	433.5	435.5	437.5	439.5
110°	492.9	498.9	508.8	514.7	516.7	520.6	522.6	524.6	526.6	530.5



TEST NUMBER: P395629

CATALOG NUMBER: I3-FL-80L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	578.1	584.0	591.9	599.8	597.9	603.8	607.8	609.7	611.7	609.7
115°	655.3	663.2	671.1	679.0	679.0	683.0	690.9	692.9	692.9	696.8
117.5°	728.5	738.4	746.3	754.2	756.2	760.2	766.1	772.1	772.1	776.0
120°	799.8	811.7	819.6	827.5	831.5	833.4	839.4	847.3	847.3	847.3
122.5°	867.1	877.0	886.9	894.8	898.8	902.7	906.7	916.6	916.6	920.5
125°	930.4	942.3	952.2	960.1	964.1	968.0	976.0	981.9	983.9	983.9
127.5°	989.8	1001.7	1011.6	1021.5	1023.5	1027.4	1035.4	1043.3	1045.3	1047.2
130°	1045.3	1057.1	1067.0	1076.9	1080.9	1082.9	1092.8	1098.7	1102.7	1104.6
132.5°	1094.7	1106.6	1116.5	1126.4	1130.4	1134.3	1140.3	1150.2	1152.2	1152.2
135°	1140.3	1152.2	1162.1	1173.9	1175.9	1179.9	1187.8	1193.7	1197.7	1199.7
137.5°	1181.8	1193.7	1205.6	1215.5	1219.5	1221.4	1229.4	1237.3	1241.2	1243.2
140°	1219.5	1231.3	1243.2	1251.1	1253.1	1259.1	1265.0	1272.9	1276.9	1278.9
142.5°	1255.1	1265.0	1274.9	1284.8	1286.8	1290.7	1296.7	1304.6	1308.5	1310.5
145°	1286.8	1296.7	1304.6	1312.5	1314.5	1318.4	1324.4	1330.3	1334.3	1336.3
147.5°	1316.5	1324.4	1332.3	1338.2	1340.2	1344.2	1348.1	1352.1	1356.1	1358.0
150°	1342.2	1346.2	1354.1	1358.0	1360.0	1364.0	1367.9	1371.9	1375.9	1377.8
152.5°	1362.0	1367.9	1371.9	1377.8	1379.8	1381.8	1385.8	1389.7	1393.7	1393.7
155°	1377.8	1383.8	1387.7	1393.7	1395.7	1397.6	1401.6	1403.6	1407.5	1407.5
157.5°	1389.7	1395.7	1399.6	1403.6	1405.5	1407.5	1409.5	1413.5	1417.4	1417.4
160°	1403.6	1405.5	1407.5	1411.5	1411.5	1413.5	1415.4	1417.4	1421.4	1421.4
162.5°	1415.4	1417.4	1413.5	1415.4	1413.5	1415.4	1417.4	1419.4	1421.4	1421.4
165°	1419.4	1423.4	1421.4	1423.4	1423.4	1423.4	1423.4	1425.3	1425.3	1425.3
167.5°	1419.4	1423.4	1421.4	1421.4	1423.4	1423.4	1425.3	1427.3	1427.3	1427.3
170°	1419.4	1421.4	1419.4	1417.4	1419.4	1419.4	1419.4	1421.4	1421.4	1421.4
172.5°	1417.4	1419.4	1415.4	1413.5	1413.5	1413.5	1411.5	1411.5	1409.5	1409.5
175°	1415.4	1415.4	1411.5	1409.5	1409.5	1409.5	1405.5	1403.6	1401.6	1399.6
177.5°	1413.5	1413.5	1407.5	1405.5	1405.5	1403.6	1403.6	1399.6	1399.6	1397.6
180°	1409.5	1409.5	1409.5	1409.5	1409.5	1409.5	1409.5	1409.5	1409.5	1409.5

(END OF REPORT)