

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: P395524

Luminaire Tested: **I3-FL-30L83050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395524  
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-30L83050-1D-UNV-W2A-W-4 (3000K)  
Description: CORELITE I3, FROSTED TOP COVER  
3000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 3000K/5000K CCT, 80 CRI LEDS, TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2591.0 lumens  
Efficiency: N/A  
Efficacy: 125.2 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

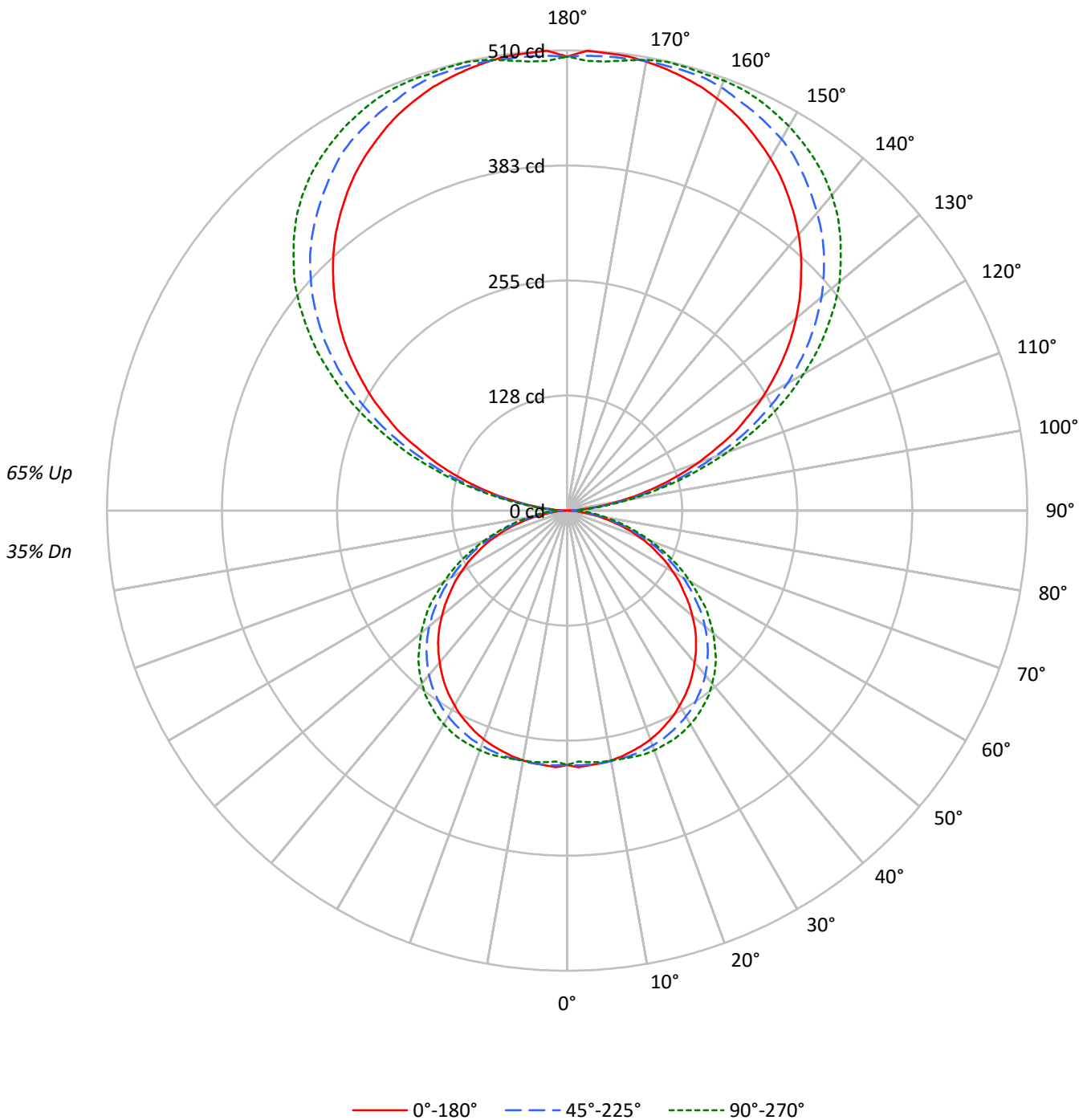
Input Watts (W): 20.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P395524

CATALOG NUMBER: I3-FL-30L83050-1D-UNV-W2A-W-4 (3000K)

### Luminous Intensity Polar Plot





TEST NUMBER: P395524

CATALOG NUMBER: I3-FL-30L83050-1D-UNV-W2A-W-4 (3000K)

**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°	1549	1549	1549
5°	1557	1524	1500
10°	1558	1503	1482
15°	1555	1490	1476
20°	1555	1477	1474
25°	1550	1464	1469
30°	1545	1450	1455
35°	1538	1427	1433
40°	1522	1397	1402
45°	1507	1353	1360
50°	1472	1294	1293
55°	1430	1212	1215
60°	1382	1117	1098
65°	1313	1001	975
70°	1220	854	824
75°	1061	678	655
80°	829	482	480
85°	450	276	315



TEST NUMBER: P395524

CATALOG NUMBER: I3-FL-30L83050-1D-UNV-W2A-W-4 (3000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	26.9	1.0
10°-20°	79.1	3.1
20°-30°	124.7	4.8
30°-40°	156.7	6.0
40°-50°	168.5	6.5
50°-60°	155.0	6.0
60°-70°	118.7	4.6
70°-80°	67.6	2.6
80°-90°	21.1	0.8
90°-100°	28.2	1.1
100°-110°	122.8	4.7
110°-120°	224.8	8.7
120°-130°	289.8	11.2
130°-140°	308.3	11.9
140°-150°	283.7	10.9
150°-160°	224.7	8.7
160°-170°	142.3	5.5
170°-180°	48.2	1.9
0°-30°	230.6	8.9
0°-40°	387.3	14.9
0°-60°	710.7	27.4
0°-90°	918.2	35.4
90°-120°	375.8	14.5
90°-150°	1257.6	48.5
90°-180°	1673.0	64.6
0°-180°	2591.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	282	282	282	282	282	
5°	283	280	283	281	280	27
15°	276	275	280	283	283	78
25°	261	261	271	278	280	120
35°	236	239	252	261	264	148
45°	202	207	220	230	233	156
55°	158	165	174	184	187	142
65°	110	114	121	126	129	109
75°	58	59	64	67	69	61
85°	11	13	18	23	24	13
90°	1	2	6	9	11	2
95°	19	18	20	23	24	24
105°	104	109	117	124	126	111
115°	204	213	230	242	249	200
125°	292	304	328	344	351	261
135°	367	379	403	420	428	283
145°	427	436	456	469	477	267
155°	471	476	488	498	502	217
165°	497	497	504	508	509	141
175°	509	505	505	503	500	48
180°	503	503	503	503	503	



TEST NUMBER: P395524

CATALOG NUMBER: I3-FL-30L83050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	281.9	281.9	281.9	281.9	281.9	281.9	281.9	281.9	281.9	281.9	281.9
2.5°	284.7	284.0	283.3	281.9	281.9	281.2	281.2	281.2	281.2	281.9	282.6
5°	283.3	283.3	282.6	281.2	281.2	280.5	280.5	281.2	280.5	281.2	282.6
7.5°	282.6	282.6	281.9	280.5	280.5	280.5	280.5	280.5	280.5	281.2	282.6
10°	281.2	281.2	279.8	279.1	279.1	279.1	279.1	279.8	279.8	280.5	281.9
12.5°	279.1	278.4	277.7	277.0	277.0	277.0	277.7	278.4	278.4	279.8	281.2
15°	276.3	276.3	275.6	274.9	274.9	274.9	275.6	276.3	277.0	278.4	280.5
17.5°	273.4	273.4	272.7	272.7	272.7	272.7	273.4	274.1	275.6	277.0	279.1
20°	269.9	269.9	269.2	269.2	269.2	269.9	269.9	271.3	272.7	274.9	277.0
22.5°	265.7	265.7	265.7	265.0	265.7	266.4	267.1	268.5	269.9	272.0	274.9
25°	260.7	260.7	260.7	260.7	261.4	261.4	262.8	264.3	265.7	268.5	271.3
27.5°	255.8	255.8	255.8	255.1	256.5	257.2	257.9	260.0	261.4	265.0	267.8
30°	249.4	249.4	249.4	250.1	250.8	251.5	252.9	255.1	256.5	260.0	263.5
32.5°	243.1	243.1	243.1	243.1	245.2	245.9	246.6	248.7	251.5	255.1	258.6
35°	236.0	236.0	236.0	236.7	238.1	238.8	240.2	242.3	245.2	248.7	252.2
37.5°	228.2	228.9	228.9	229.6	231.0	232.5	233.9	236.0	238.8	242.3	245.9
40°	219.7	220.4	220.4	221.2	222.6	224.0	225.4	228.2	231.0	234.6	238.1
42.5°	211.3	212.0	212.0	213.4	214.8	216.2	217.6	220.4	223.3	226.8	229.6
45°	202.1	202.8	202.8	204.2	206.3	207.0	209.1	212.0	214.8	217.6	220.4
47.5°	192.2	192.9	192.9	194.3	196.4	197.8	199.2	202.1	204.2	207.7	210.6
50°	180.9	181.6	182.3	183.7	186.5	187.9	189.4	191.5	194.3	196.4	199.2
52.5°	170.3	170.3	171.0	172.4	174.5	175.9	176.6	178.8	182.3	185.1	187.9
55°	158.3	159.0	159.7	161.1	163.2	164.6	165.3	167.5	169.6	171.7	174.5
57.5°	147.7	147.7	148.4	149.8	151.9	152.6	153.3	154.7	157.6	159.7	161.8
60°	135.0	135.7	136.4	137.8	139.2	140.6	140.6	142.7	144.8	147.0	148.4
62.5°	123.6	123.6	124.4	125.8	126.5	127.9	127.9	130.0	131.4	133.5	135.0
65°	110.2	110.9	111.6	112.3	113.8	113.8	114.5	115.9	117.3	118.7	120.8
67.5°	98.2	98.2	98.9	99.6	100.3	100.3	101.0	102.5	103.9	105.3	106.7
70°	84.8	85.5	85.5	85.5	86.2	86.9	87.6	88.3	89.7	90.4	91.9
72.5°	71.4	71.4	72.1	72.1	72.8	73.5	74.2	74.9	75.6	77.0	77.7
75°	57.9	57.9	58.6	58.6	59.4	59.4	59.4	60.8	61.5	62.9	63.6
77.5°	44.5	45.2	45.2	45.2	45.9	46.6	46.6	47.3	48.8	49.5	50.2
80°	32.5	32.5	32.5	32.5	33.2	33.9	34.6	34.6	36.0	37.4	38.2
82.5°	20.5	20.5	21.2	21.9	21.9	22.6	23.3	24.0	25.4	26.1	26.8
85°	10.6	10.6	11.3	12.0	12.7	13.4	13.4	14.1	15.5	17.0	17.7
87.5°	3.5	4.2	4.2	4.9	5.7	6.4	7.1	7.8	9.2	10.6	11.3
90°	0.7	0.7	0.7	1.4	2.1	2.1	2.8	3.5	4.2	4.9	6.4
92.5°	6.4	6.4	5.7	6.4	6.4	6.4	6.4	7.1	7.8	7.8	9.2
95°	19.1	18.4	18.4	18.4	18.4	18.4	18.4	19.1	19.8	19.8	20.5
97.5°	36.7	36.7	36.0	36.0	36.7	36.7	36.7	37.4	38.9	38.2	39.6
100°	57.2	57.2	56.5	57.2	57.9	58.6	60.1	60.1	61.5	61.5	63.6
102.5°	80.5	80.5	79.8	81.3	82.0	83.4	83.4	84.8	86.9	86.9	89.7
105°	103.9	104.6	104.6	106.0	107.4	108.8	108.8	110.9	113.8	113.8	117.3
107.5°	129.3	130.0	130.0	131.4	132.8	134.2	135.0	137.8	140.6	141.3	145.6
110°	154.0	154.7	155.4	156.9	158.3	160.4	161.8	164.6	168.2	169.6	173.1



TEST NUMBER: P395524

CATALOG NUMBER: I3-FL-30L83050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	177.3	180.2	180.9	183.0	185.1	187.2	188.7	192.2	196.4	198.5	202.8
115°	204.2	205.6	206.3	208.4	211.3	213.4	214.8	218.3	222.6	225.4	230.3
117.5°	226.1	229.6	230.3	232.5	235.3	237.4	238.8	243.1	248.0	251.5	256.5
120°	249.4	252.2	255.1	256.5	258.6	261.4	262.8	267.1	272.7	276.3	281.9
122.5°	270.6	273.4	276.3	278.4	281.2	282.6	284.7	289.7	295.3	299.6	305.2
125°	291.8	295.3	297.5	299.6	303.1	304.5	306.6	311.6	317.2	322.2	327.8
127.5°	312.3	314.4	318.0	319.4	322.9	324.3	326.4	332.1	337.7	342.7	348.3
130°	331.4	334.2	337.0	337.7	342.0	344.1	346.2	351.2	357.5	362.5	368.1
132.5°	349.7	351.2	354.7	356.8	360.3	362.5	364.6	368.8	375.2	380.1	385.8
135°	366.7	368.1	372.4	374.5	376.6	378.7	381.5	385.8	392.1	397.1	402.7
137.5°	383.7	385.1	389.3	391.4	392.8	395.0	397.1	401.3	407.7	412.6	417.6
140°	399.2	400.6	403.4	406.3	407.7	409.1	411.2	415.5	421.1	426.1	431.0
142.5°	413.3	414.7	417.6	420.4	422.5	422.5	424.6	428.2	434.5	439.5	443.7
145°	426.8	427.5	430.3	433.1	435.9	435.9	436.7	440.2	445.8	451.5	455.7
147.5°	439.5	440.2	442.3	445.1	447.3	448.0	449.4	450.8	456.4	462.1	467.0
150°	450.8	451.5	452.9	455.7	457.1	458.6	460.0	460.7	464.9	469.9	475.5
152.5°	460.7	461.4	462.8	464.9	466.3	467.7	469.2	471.3	473.4	478.3	481.9
155°	470.6	471.3	472.0	474.1	475.5	476.2	476.9	479.8	481.9	484.7	488.2
157.5°	479.0	479.0	479.8	481.2	482.6	482.6	483.3	486.1	488.2	491.1	493.2
160°	486.1	486.1	486.8	488.2	488.2	488.9	489.6	491.8	493.2	496.7	499.5
162.5°	492.5	491.8	492.5	493.2	493.2	493.2	493.9	495.3	497.4	500.2	503.1
165°	497.4	497.4	497.4	498.1	498.1	497.4	497.4	498.8	500.2	502.4	504.5
167.5°	501.7	501.7	500.9	501.7	500.9	500.9	500.2	500.9	501.7	503.8	505.2
170°	505.2	504.5	504.5	504.5	503.8	503.1	503.1	503.1	503.1	504.5	505.9
172.5°	508.0	507.3	506.6	506.6	505.2	504.5	504.5	503.8	503.8	504.5	505.2
175°	508.7	508.0	507.3	507.3	505.9	505.2	504.5	504.5	503.8	504.5	505.2
177.5°	510.1	509.4	508.0	508.0	506.6	505.2	505.2	504.5	503.8	504.5	504.5
180°	503.1	503.1	503.1	503.1	503.1	503.1	503.1	503.1	503.1	503.1	503.1



TEST NUMBER: P395524

CATALOG NUMBER: I3-FL-30L83050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	281.9	281.9	281.9	281.9	281.9	281.9	281.9	281.9	281.9	281.9
2.5°	283.3	283.3	282.6	281.9	281.9	281.2	280.5	279.8	279.1	278.4
5°	283.3	282.6	281.9	281.9	281.2	281.2	281.2	280.5	279.8	279.8
7.5°	283.3	283.3	282.6	281.9	281.9	281.9	281.9	281.9	281.2	281.2
10°	283.3	282.6	282.6	282.6	281.9	282.6	282.6	281.9	281.9	281.2
12.5°	282.6	282.6	282.6	282.6	282.6	282.6	282.6	282.6	282.6	281.9
15°	281.2	281.9	281.9	282.6	282.6	282.6	283.3	283.3	282.6	282.6
17.5°	280.5	281.2	281.9	282.6	282.6	282.6	283.3	283.3	283.3	283.3
20°	279.1	279.8	280.5	281.2	281.2	281.9	281.9	282.6	282.6	282.6
22.5°	276.3	277.0	278.4	279.1	279.8	280.5	281.2	281.2	281.2	281.2
25°	273.4	274.9	275.6	277.0	277.7	278.4	279.1	279.1	279.1	279.8
27.5°	269.9	271.3	273.4	274.1	274.9	275.6	276.3	277.0	277.0	277.0
30°	265.7	267.8	269.2	270.6	271.3	272.0	272.7	272.7	273.4	273.4
32.5°	260.7	262.8	264.3	265.7	266.4	267.1	268.5	268.5	269.2	269.2
35°	254.4	256.5	258.6	260.0	260.7	261.4	262.8	263.5	263.5	263.5
37.5°	248.0	250.1	252.2	254.4	255.1	255.8	257.2	257.2	257.9	257.9
40°	240.2	242.3	244.5	246.6	246.6	248.0	248.7	249.4	250.1	250.1
42.5°	232.5	234.6	236.0	238.1	238.8	239.5	240.2	241.6	241.6	242.3
45°	223.3	225.4	226.8	228.9	229.6	230.3	231.8	232.5	233.2	233.2
47.5°	213.4	214.8	216.2	218.3	219.7	220.4	221.2	221.9	222.6	221.9
50°	202.1	203.5	205.6	207.7	208.4	209.1	210.6	210.6	211.3	211.3
52.5°	190.1	192.2	193.6	195.7	196.4	197.1	198.5	198.5	199.2	199.2
55°	176.6	178.1	179.5	183.0	183.7	184.4	185.8	185.8	186.5	187.2
57.5°	163.9	164.6	166.7	168.2	169.6	169.6	170.3	171.0	171.7	171.7
60°	150.5	151.2	152.6	154.7	154.7	155.4	156.9	156.9	157.6	157.6
62.5°	136.4	137.8	139.2	141.3	140.6	141.3	142.7	142.7	143.4	143.4
65°	122.2	122.9	124.4	125.8	126.5	126.5	127.2	127.9	128.6	128.6
67.5°	107.4	108.8	109.5	111.6	110.9	111.6	112.3	112.3	113.0	113.0
70°	93.3	94.0	95.4	96.1	96.1	96.8	97.5	97.5	97.5	98.2
72.5°	79.1	79.8	80.5	81.3	81.3	82.0	82.7	82.7	83.4	83.4
75°	64.3	65.7	66.4	67.8	67.1	67.8	69.2	69.2	69.2	69.2
77.5°	51.6	52.3	53.7	54.4	54.4	54.4	55.8	55.1	55.8	55.8
80°	38.9	39.6	41.0	41.7	41.7	42.4	43.1	43.1	43.1	43.8
82.5°	27.6	29.0	30.4	31.1	31.1	31.8	32.5	32.5	33.2	33.2
85°	19.1	20.5	21.9	21.9	22.6	23.3	24.0	24.0	24.0	24.0
87.5°	12.7	13.4	14.1	14.8	15.5	15.5	16.3	16.3	17.0	17.0
90°	7.1	7.8	8.5	9.2	9.2	9.9	9.9	10.6	10.6	10.6
92.5°	9.9	9.9	10.6	11.3	11.3	11.3	11.3	12.0	12.0	12.0
95°	21.2	21.9	21.9	23.3	23.3	23.3	24.0	24.0	24.0	24.0
97.5°	41.0	41.0	41.0	42.4	42.4	42.4	43.1	43.1	43.1	43.8
100°	64.3	65.0	65.0	67.1	66.4	67.8	67.8	67.8	67.8	68.5
102.5°	90.4	91.9	92.6	94.7	94.7	94.7	96.1	95.4	96.1	96.1
105°	118.7	120.1	120.8	122.9	124.4	124.4	125.8	125.1	125.8	126.5
107.5°	147.0	149.1	150.5	152.6	154.0	154.7	154.7	155.4	156.1	156.9
110°	175.9	178.1	181.6	183.7	184.4	185.8	186.5	187.2	187.9	189.4





TEST NUMBER: P395524

CATALOG NUMBER: I3-FL-30L83050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	206.3	208.4	211.3	214.1	213.4	215.5	216.9	217.6	218.3	217.6
115°	233.9	236.7	239.5	242.3	242.3	243.8	246.6	247.3	247.3	248.7
117.5°	260.0	263.5	266.4	269.2	269.9	271.3	273.4	275.6	275.6	277.0
120°	285.4	289.7	292.5	295.3	296.8	297.5	299.6	302.4	302.4	302.4
122.5°	309.5	313.0	316.5	319.4	320.8	322.2	323.6	327.1	327.1	328.5
125°	332.1	336.3	339.9	342.7	344.1	345.5	348.3	350.5	351.2	351.2
127.5°	353.3	357.5	361.1	364.6	365.3	366.7	369.5	372.4	373.1	373.8
130°	373.1	377.3	380.8	384.4	385.8	386.5	390.0	392.1	393.6	394.3
132.5°	390.7	395.0	398.5	402.0	403.4	404.9	407.0	410.5	411.2	411.2
135°	407.0	411.2	414.7	419.0	419.7	421.1	423.9	426.1	427.5	428.2
137.5°	421.8	426.1	430.3	433.8	435.2	435.9	438.8	441.6	443.0	443.7
140°	435.2	439.5	443.7	446.5	447.3	449.4	451.5	454.3	455.7	456.4
142.5°	448.0	451.5	455.0	458.6	459.3	460.7	462.8	465.6	467.0	467.7
145°	459.3	462.8	465.6	468.4	469.2	470.6	472.7	474.8	476.2	476.9
147.5°	469.9	472.7	475.5	477.6	478.3	479.8	481.2	482.6	484.0	484.7
150°	479.0	480.5	483.3	484.7	485.4	486.8	488.2	489.6	491.1	491.8
152.5°	486.1	488.2	489.6	491.8	492.5	493.2	494.6	496.0	497.4	497.4
155°	491.8	493.9	495.3	497.4	498.1	498.8	500.2	500.9	502.4	502.4
157.5°	496.0	498.1	499.5	500.9	501.7	502.4	503.1	504.5	505.9	505.9
160°	500.9	501.7	502.4	503.8	503.8	504.5	505.2	505.9	507.3	507.3
162.5°	505.2	505.9	504.5	505.2	504.5	505.2	505.9	506.6	507.3	507.3
165°	506.6	508.0	507.3	508.0	508.0	508.0	508.0	508.7	508.7	508.7
167.5°	506.6	508.0	507.3	507.3	508.0	508.0	508.7	509.4	509.4	509.4
170°	506.6	507.3	506.6	505.9	506.6	506.6	506.6	507.3	507.3	507.3
172.5°	505.9	506.6	505.2	504.5	504.5	504.5	503.8	503.8	503.1	503.1
175°	505.2	505.2	503.8	503.1	503.1	503.1	501.7	500.9	500.2	499.5
177.5°	504.5	504.5	502.4	501.7	501.7	500.9	500.9	499.5	499.5	498.8
180°	503.1	503.1	503.1	503.1	503.1	503.1	503.1	503.1	503.1	503.1

(END OF REPORT)