

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: P395526

Luminaire Tested: **I3-FL-30L83050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395526  
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 (4000K)  
Description: CORELITE I3, FROSTED TOP COVER  
3000 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: 2884.1 lumens  
Efficiency: N/A  
Efficacy: 136.0 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

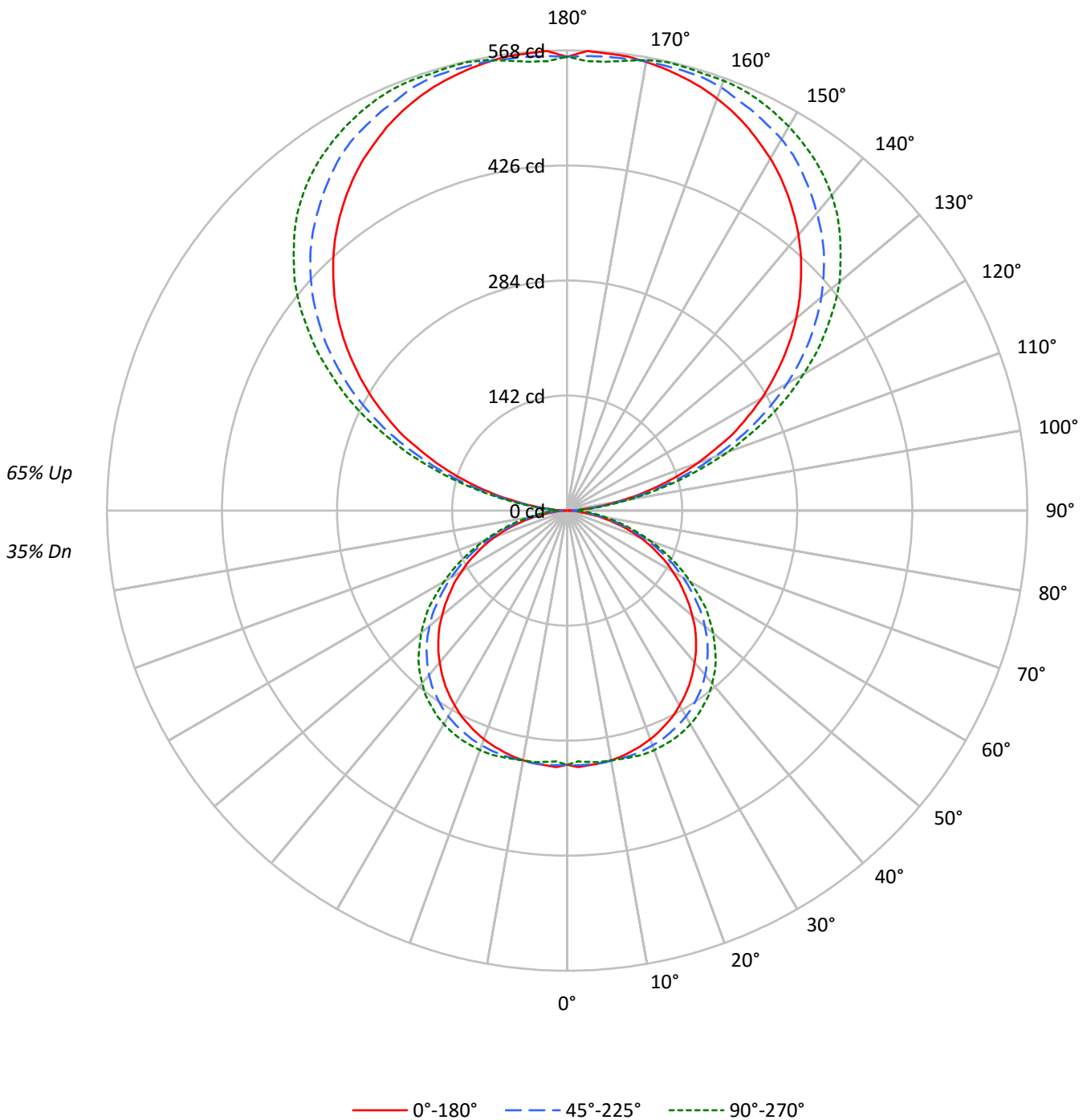
Input Watts (W): 21.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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CATALOG NUMBER: I3-FL-30L83050-1D-UNV-W2A-W-4 (4000K)

### Luminous Intensity Polar Plot





TEST NUMBER: P395526

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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°	1725	1725	1725
5°	1734	1696	1669
10°	1734	1673	1650
15°	1730	1658	1643
20°	1730	1644	1641
25°	1726	1630	1634
30°	1720	1614	1620
35°	1712	1589	1596
40°	1695	1555	1561
45°	1677	1507	1513
50°	1638	1440	1439
55°	1592	1350	1353
60°	1538	1244	1222
65°	1462	1114	1085
70°	1358	949	917
75°	1182	755	730
80°	923	537	534
85°	501	308	350



TEST NUMBER: P395526

CATALOG NUMBER: I3-FL-30L83050-1D-UNV-W2A-W-4 (4000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.9	1.0
10°-20°	88.0	3.1
20°-30°	138.8	4.8
30°-40°	174.4	6.0
40°-50°	187.5	6.5
50°-60°	172.5	6.0
60°-70°	132.2	4.6
70°-80°	75.3	2.6
80°-90°	23.5	0.8
90°-100°	31.4	1.1
100°-110°	136.7	4.7
110°-120°	250.2	8.7
120°-130°	322.5	11.2
130°-140°	343.2	11.9
140°-150°	315.8	10.9
150°-160°	250.2	8.7
160°-170°	158.4	5.5
170°-180°	53.6	1.9
0°-30°	256.7	8.9
0°-40°	431.1	14.9
0°-60°	791.1	27.4
0°-90°	1022.1	35.4
90°-120°	418.3	14.5
90°-150°	1399.8	48.5
90°-180°	1862.0	64.6
0°-180°	2884.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	314	314	314	314	314	
5°	315	312	315	313	311	30
15°	308	306	312	315	315	87
25°	290	291	302	309	311	134
35°	263	266	281	290	293	164
45°	225	230	245	256	260	173
55°	176	183	194	204	208	158
65°	123	127	134	141	143	122
75°	64	66	71	75	77	68
85°	12	15	20	25	27	15
90°	1	2	7	10	12	2
95°	21	20	23	26	27	27
105°	116	121	131	138	141	123
115°	227	238	256	270	277	223
125°	325	339	365	383	391	290
135°	408	422	448	467	477	315
145°	475	485	507	522	531	297
155°	524	530	544	554	559	241
165°	554	554	562	566	566	156
175°	566	562	562	560	556	54
180°	560	560	560	560	560	



TEST NUMBER: P395526

CATALOG NUMBER: I3-FL-30L83050-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	313.8	313.8	313.8	313.8	313.8	313.8	313.8	313.8	313.8	313.8	313.8
2.5°	316.9	316.2	315.4	313.8	313.8	313.0	313.0	313.0	313.0	313.8	314.6
5°	315.4	315.4	314.6	313.0	313.0	312.2	312.2	313.0	312.2	313.0	314.6
7.5°	314.6	314.6	313.8	312.2	312.2	312.2	312.2	312.2	312.2	313.0	314.6
10°	313.0	313.0	311.4	310.7	310.7	310.7	310.7	311.4	311.4	312.2	313.8
12.5°	310.7	309.9	309.1	308.3	308.3	308.3	309.1	309.9	309.9	311.4	313.0
15°	307.5	307.5	306.7	305.9	305.9	305.9	306.7	307.5	308.3	309.9	312.2
17.5°	304.4	304.4	303.6	303.6	303.6	303.6	304.4	305.2	306.7	308.3	310.7
20°	300.4	300.4	299.6	299.6	299.6	300.4	300.4	302.0	303.6	305.9	308.3
22.5°	295.7	295.7	295.7	294.9	295.7	296.5	297.3	298.9	300.4	302.8	305.9
25°	290.2	290.2	290.2	290.2	291.0	291.0	292.6	294.1	295.7	298.9	302.0
27.5°	284.7	284.7	284.7	283.9	285.5	286.3	287.1	289.4	291.0	294.9	298.1
30°	277.6	277.6	277.6	278.4	279.2	280.0	281.6	283.9	285.5	289.4	293.4
32.5°	270.5	270.5	270.5	270.5	272.9	273.7	274.5	276.8	280.0	283.9	287.8
35°	262.7	262.7	262.7	263.5	265.0	265.8	267.4	269.8	272.9	276.8	280.8
37.5°	254.0	254.8	254.8	255.6	257.2	258.8	260.3	262.7	265.8	269.8	273.7
40°	244.6	245.4	245.4	246.2	247.7	249.3	250.9	254.0	257.2	261.1	265.0
42.5°	235.2	235.9	235.9	237.5	239.1	240.7	242.2	245.4	248.5	252.5	255.6
45°	224.9	225.7	225.7	227.3	229.7	230.4	232.8	235.9	239.1	242.2	245.4
47.5°	213.9	214.7	214.7	216.3	218.6	220.2	221.8	224.9	227.3	231.2	234.4
50°	201.3	202.1	202.9	204.5	207.6	209.2	210.8	213.1	216.3	218.6	221.8
52.5°	189.5	189.5	190.3	191.9	194.3	195.8	196.6	199.0	202.9	206.1	209.2
55°	176.2	177.0	177.7	179.3	181.7	183.2	184.0	186.4	188.8	191.1	194.3
57.5°	164.4	164.4	165.2	166.7	169.1	169.9	170.7	172.2	175.4	177.7	180.1
60°	150.2	151.0	151.8	153.4	154.9	156.5	156.5	158.9	161.2	163.6	165.2
62.5°	137.6	137.6	138.4	140.0	140.8	142.4	142.4	144.7	146.3	148.6	150.2
65°	122.7	123.5	124.3	125.0	126.6	126.6	127.4	129.0	130.6	132.1	134.5
67.5°	109.3	109.3	110.1	110.9	111.7	111.7	112.5	114.0	115.6	117.2	118.8
70°	94.4	95.2	95.2	95.2	95.9	96.7	97.5	98.3	99.9	100.7	102.2
72.5°	79.4	79.4	80.2	80.2	81.0	81.8	82.6	83.4	84.2	85.7	86.5
75°	64.5	64.5	65.3	65.3	66.1	66.1	66.1	67.6	68.4	70.0	70.8
77.5°	49.5	50.3	50.3	50.3	51.1	51.9	51.9	52.7	54.3	55.1	55.8
80°	36.2	36.2	36.2	36.2	37.0	37.8	38.5	38.5	40.1	41.7	42.5
82.5°	22.8	22.8	23.6	24.4	24.4	25.2	26.0	26.7	28.3	29.1	29.9
85°	11.8	11.8	12.6	13.4	14.2	14.9	14.9	15.7	17.3	18.9	19.7
87.5°	3.9	4.7	4.7	5.5	6.3	7.1	7.9	8.7	10.2	11.8	12.6
90°	0.8	0.8	0.8	1.6	2.4	2.4	3.1	3.9	4.7	5.5	7.1
92.5°	7.1	7.1	6.3	7.1	7.1	7.1	7.1	7.9	8.7	8.7	10.2
95°	21.2	20.4	20.4	20.4	20.4	20.4	20.4	21.2	22.0	22.0	22.8
97.5°	40.9	40.9	40.1	40.1	40.9	40.9	40.9	41.7	43.3	42.5	44.0
100°	63.7	63.7	62.9	63.7	64.5	65.3	66.9	66.9	68.4	68.4	70.8
102.5°	89.7	89.7	88.9	90.4	91.2	92.8	92.8	94.4	96.7	96.7	99.9
105°	115.6	116.4	116.4	118.0	119.5	121.1	121.1	123.5	126.6	126.6	130.6
107.5°	143.9	144.7	144.7	146.3	147.9	149.4	150.2	153.4	156.5	157.3	162.0
110°	171.5	172.2	173.0	174.6	176.2	178.5	180.1	183.2	187.2	188.8	192.7



TEST NUMBER: P395526

CATALOG NUMBER: I3-FL-30L83050-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	197.4	200.6	201.3	203.7	206.1	208.4	210.0	213.9	218.6	221.0	225.7
115°	227.3	228.9	229.7	232.0	235.2	237.5	239.1	243.0	247.7	250.9	256.4
117.5°	251.7	255.6	256.4	258.8	261.9	264.3	265.8	270.5	276.1	280.0	285.5
120°	277.6	280.8	283.9	285.5	287.8	291.0	292.6	297.3	303.6	307.5	313.8
122.5°	301.2	304.4	307.5	309.9	313.0	314.6	316.9	322.5	328.7	333.5	339.8
125°	324.8	328.7	331.1	333.5	337.4	339.0	341.3	346.8	353.1	358.6	364.9
127.5°	347.6	350.0	353.9	355.5	359.4	361.0	363.4	369.6	375.9	381.4	387.7
130°	368.9	372.0	375.1	375.9	380.7	383.0	385.4	390.9	398.0	403.5	409.8
132.5°	389.3	390.9	394.8	397.2	401.1	403.5	405.8	410.5	417.6	423.1	429.4
135°	408.2	409.8	414.5	416.8	419.2	421.6	424.7	429.4	436.5	442.0	448.3
137.5°	427.1	428.6	433.3	435.7	437.3	439.6	442.0	446.7	453.8	459.3	464.8
140°	444.4	445.9	449.1	452.2	453.8	455.4	457.7	462.4	468.7	474.2	479.7
142.5°	460.1	461.7	464.8	468.0	470.3	470.3	472.7	476.6	483.7	489.2	493.9
145°	475.0	475.8	479.0	482.1	485.3	485.3	486.0	490.0	496.3	502.6	507.3
147.5°	489.2	490.0	492.3	495.5	497.8	498.6	500.2	501.8	508.1	514.4	519.9
150°	501.8	502.6	504.1	507.3	508.8	510.4	512.0	512.8	517.5	523.0	529.3
152.5°	512.8	513.6	515.1	517.5	519.1	520.6	522.2	524.6	526.9	532.4	536.4
155°	523.8	524.6	525.4	527.7	529.3	530.1	530.9	534.0	536.4	539.5	543.5
157.5°	533.2	533.2	534.0	535.6	537.2	537.2	537.9	541.1	543.5	546.6	549.0
160°	541.1	541.1	541.9	543.5	543.5	544.2	545.0	547.4	549.0	552.9	556.0
162.5°	548.2	547.4	548.2	549.0	549.0	549.0	549.7	551.3	553.7	556.8	560.0
165°	553.7	553.7	553.7	554.5	554.5	553.7	553.7	555.3	556.8	559.2	561.5
167.5°	558.4	558.4	557.6	558.4	557.6	557.6	556.8	557.6	558.4	560.8	562.3
170°	562.3	561.5	561.5	561.5	560.8	560.0	560.0	560.0	560.0	561.5	563.1
172.5°	565.5	564.7	563.9	563.9	562.3	561.5	561.5	560.8	560.8	561.5	562.3
175°	566.3	565.5	564.7	564.7	563.1	562.3	561.5	561.5	560.8	561.5	562.3
177.5°	567.8	567.0	565.5	565.5	563.9	562.3	562.3	561.5	560.8	561.5	561.5
180°	560.0	560.0	560.0	560.0	560.0	560.0	560.0	560.0	560.0	560.0	560.0



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CATALOG NUMBER: I3-FL-30L83050-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	313.8	313.8	313.8	313.8	313.8	313.8	313.8	313.8	313.8	313.8
2.5°	315.4	315.4	314.6	313.8	313.8	313.0	312.2	311.4	310.7	309.9
5°	315.4	314.6	313.8	313.8	313.0	313.0	313.0	312.2	311.4	311.4
7.5°	315.4	315.4	314.6	313.8	313.8	313.8	313.8	313.8	313.0	313.0
10°	315.4	314.6	314.6	314.6	313.8	314.6	314.6	313.8	313.8	313.0
12.5°	314.6	314.6	314.6	314.6	314.6	314.6	314.6	314.6	314.6	313.8
15°	313.0	313.8	313.8	314.6	314.6	314.6	315.4	315.4	314.6	314.6
17.5°	312.2	313.0	313.8	314.6	314.6	314.6	315.4	315.4	315.4	315.4
20°	310.7	311.4	312.2	313.0	313.0	313.8	313.8	314.6	314.6	314.6
22.5°	307.5	308.3	309.9	310.7	311.4	312.2	313.0	313.0	313.0	313.0
25°	304.4	305.9	306.7	308.3	309.1	309.9	310.7	310.7	310.7	311.4
27.5°	300.4	302.0	304.4	305.2	305.9	306.7	307.5	308.3	308.3	308.3
30°	295.7	298.1	299.6	301.2	302.0	302.8	303.6	303.6	304.4	304.4
32.5°	290.2	292.6	294.1	295.7	296.5	297.3	298.9	298.9	299.6	299.6
35°	283.1	285.5	287.8	289.4	290.2	291.0	292.6	293.4	293.4	293.4
37.5°	276.1	278.4	280.8	283.1	283.9	284.7	286.3	286.3	287.1	287.1
40°	267.4	269.8	272.1	274.5	274.5	276.1	276.8	277.6	278.4	278.4
42.5°	258.8	261.1	262.7	265.0	265.8	266.6	267.4	269.0	269.0	269.8
45°	248.5	250.9	252.5	254.8	255.6	256.4	258.0	258.8	259.5	259.5
47.5°	237.5	239.1	240.7	243.0	244.6	245.4	246.2	247.0	247.7	247.0
50°	224.9	226.5	228.9	231.2	232.0	232.8	234.4	234.4	235.2	235.2
52.5°	211.6	213.9	215.5	217.9	218.6	219.4	221.0	221.0	221.8	221.8
55°	196.6	198.2	199.8	203.7	204.5	205.3	206.8	206.8	207.6	208.4
57.5°	182.5	183.2	185.6	187.2	188.8	188.8	189.5	190.3	191.1	191.1
60°	167.5	168.3	169.9	172.2	172.2	173.0	174.6	174.6	175.4	175.4
62.5°	151.8	153.4	154.9	157.3	156.5	157.3	158.9	158.9	159.7	159.7
65°	136.1	136.8	138.4	140.0	140.8	140.8	141.6	142.4	143.1	143.1
67.5°	119.5	121.1	121.9	124.3	123.5	124.3	125.0	125.0	125.8	125.8
70°	103.8	104.6	106.2	107.0	107.0	107.7	108.5	108.5	108.5	109.3
72.5°	88.1	88.9	89.7	90.4	90.4	91.2	92.0	92.0	92.8	92.8
75°	71.6	73.1	73.9	75.5	74.7	75.5	77.1	77.1	77.1	77.1
77.5°	57.4	58.2	59.8	60.6	60.6	60.6	62.1	61.3	62.1	62.1
80°	43.3	44.0	45.6	46.4	46.4	47.2	48.0	48.0	48.0	48.8
82.5°	30.7	32.2	33.8	34.6	34.6	35.4	36.2	36.2	37.0	37.0
85°	21.2	22.8	24.4	24.4	25.2	26.0	26.7	26.7	26.7	26.7
87.5°	14.2	14.9	15.7	16.5	17.3	17.3	18.1	18.1	18.9	18.9
90°	7.9	8.7	9.4	10.2	10.2	11.0	11.0	11.8	11.8	11.8
92.5°	11.0	11.0	11.8	12.6	12.6	12.6	12.6	13.4	13.4	13.4
95°	23.6	24.4	24.4	26.0	26.0	26.0	26.7	26.7	26.7	26.7
97.5°	45.6	45.6	45.6	47.2	47.2	47.2	48.0	48.0	48.0	48.8
100°	71.6	72.4	72.4	74.7	73.9	75.5	75.5	75.5	75.5	76.3
102.5°	100.7	102.2	103.0	105.4	105.4	105.4	107.0	106.2	107.0	107.0
105°	132.1	133.7	134.5	136.8	138.4	138.4	140.0	139.2	140.0	140.8
107.5°	163.6	165.9	167.5	169.9	171.5	172.2	172.2	173.0	173.8	174.6
110°	195.8	198.2	202.1	204.5	205.3	206.8	207.6	208.4	209.2	210.8





TEST NUMBER: P395526

CATALOG NUMBER: I3-FL-30L83050-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	229.7	232.0	235.2	238.3	237.5	239.9	241.4	242.2	243.0	242.2
115°	260.3	263.5	266.6	269.8	269.8	271.3	274.5	275.3	275.3	276.8
117.5°	289.4	293.4	296.5	299.6	300.4	302.0	304.4	306.7	306.7	308.3
120°	317.7	322.5	325.6	328.7	330.3	331.1	333.5	336.6	336.6	336.6
122.5°	344.5	348.4	352.3	355.5	357.1	358.6	360.2	364.1	364.1	365.7
125°	369.6	374.4	378.3	381.4	383.0	384.6	387.7	390.1	390.9	390.9
127.5°	393.2	398.0	401.9	405.8	406.6	408.2	411.3	414.5	415.3	416.0
130°	415.3	420.0	423.9	427.8	429.4	430.2	434.1	436.5	438.1	438.9
132.5°	434.9	439.6	443.6	447.5	449.1	450.7	453.0	456.9	457.7	457.7
135°	453.0	457.7	461.7	466.4	467.2	468.7	471.9	474.2	475.8	476.6
137.5°	469.5	474.2	479.0	482.9	484.5	485.3	488.4	491.5	493.1	493.9
140°	484.5	489.2	493.9	497.1	497.8	500.2	502.6	505.7	507.3	508.1
142.5°	498.6	502.6	506.5	510.4	511.2	512.8	515.1	518.3	519.9	520.6
145°	511.2	515.1	518.3	521.4	522.2	523.8	526.2	528.5	530.1	530.9
147.5°	523.0	526.2	529.3	531.7	532.4	534.0	535.6	537.2	538.7	539.5
150°	533.2	534.8	537.9	539.5	540.3	541.9	543.5	545.0	546.6	547.4
152.5°	541.1	543.5	545.0	547.4	548.2	549.0	550.5	552.1	553.7	553.7
155°	547.4	549.7	551.3	553.7	554.5	555.3	556.8	557.6	559.2	559.2
157.5°	552.1	554.5	556.0	557.6	558.4	559.2	560.0	561.5	563.1	563.1
160°	557.6	558.4	559.2	560.8	560.8	561.5	562.3	563.1	564.7	564.7
162.5°	562.3	563.1	561.5	562.3	561.5	562.3	563.1	563.9	564.7	564.7
165°	563.9	565.5	564.7	565.5	565.5	565.5	565.5	566.3	566.3	566.3
167.5°	563.9	565.5	564.7	564.7	565.5	565.5	566.3	567.0	567.0	567.0
170°	563.9	564.7	563.9	563.1	563.9	563.9	563.9	564.7	564.7	564.7
172.5°	563.1	563.9	562.3	561.5	561.5	561.5	560.8	560.8	560.0	560.0
175°	562.3	562.3	560.8	560.0	560.0	560.0	558.4	557.6	556.8	556.0
177.5°	561.5	561.5	559.2	558.4	558.4	557.6	557.6	556.0	556.0	555.3
180°	560.0	560.0	560.0	560.0	560.0	560.0	560.0	560.0	560.0	560.0

(END OF REPORT)