

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: P395511

Luminaire Tested: **I3-FL-20L93050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395511  
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-20L93050-1D-UNV-W2A-W-4 (3000K)  
Description: CORELITE I3, FROSTED TOP COVER  
2000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1656.3 lumens  
Efficiency: N/A  
Efficacy: 99.8 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

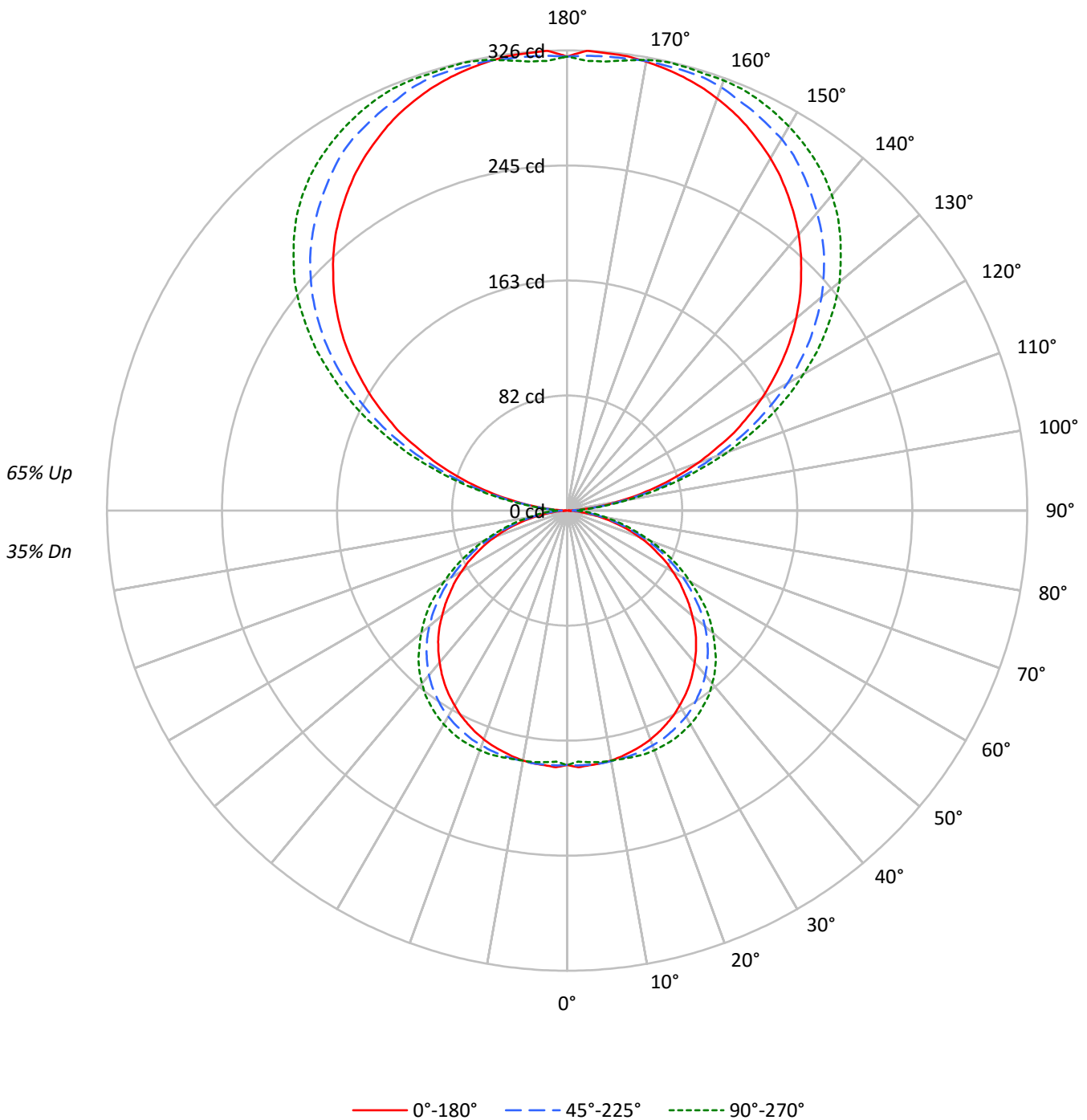
Input Watts (W): 16.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	990	990	990
5°	996	974	959
10°	996	961	948
15°	994	952	944
20°	994	944	943
25°	991	936	939
30°	987	927	930
35°	983	912	917
40°	973	893	897
45°	963	865	869
50°	941	827	826
55°	914	775	777
60°	884	714	702
65°	840	640	623
70°	780	545	527
75°	678	433	419
80°	530	308	307
85°	289	176	202



TEST NUMBER: P395511

CATALOG NUMBER: I3-FL-20L93050-1D-UNV-W2A-W-4 (3000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	17.2	1.0
10°-20°	50.5	3.1
20°-30°	79.7	4.8
30°-40°	100.2	6.0
40°-50°	107.7	6.5
50°-60°	99.1	6.0
60°-70°	75.9	4.6
70°-80°	43.2	2.6
80°-90°	13.5	0.8
90°-100°	18.1	1.1
100°-110°	78.5	4.7
110°-120°	143.7	8.7
120°-130°	185.2	11.2
130°-140°	197.1	11.9
140°-150°	181.3	10.9
150°-160°	143.7	8.7
160°-170°	91.0	5.5
170°-180°	30.8	1.9
0°-30°	147.4	8.9
0°-40°	247.6	14.9
0°-60°	454.3	27.4
0°-90°	586.9	35.4
90°-120°	240.2	14.5
90°-150°	803.9	48.5
90°-180°	1069.0	64.5
0°-180°	1656.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	180	180	180	180	180	
5°	181	179	181	180	179	17
15°	177	176	179	181	181	50
25°	167	167	173	178	179	77
35°	151	153	161	167	168	94
45°	129	132	141	147	149	99
55°	101	105	112	117	120	91
65°	70	73	77	81	82	70
75°	37	38	41	43	44	39
85°	7	9	11	14	15	9
90°	0	1	4	6	7	1
95°	12	12	13	15	15	15
105°	66	70	75	80	81	71
115°	130	136	147	155	159	128
125°	186	195	210	220	224	167
135°	234	242	257	268	274	181
145°	273	279	291	300	305	171
155°	301	304	312	318	321	139
165°	318	318	322	325	325	90
175°	325	323	323	322	319	31
180°	322	322	322	322	322	



TEST NUMBER: P395511

CATALOG NUMBER: I3-FL-20L93050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	180.2	180.2	180.2	180.2	180.2	180.2	180.2	180.2	180.2	180.2	180.2
2.5°	182.0	181.6	181.1	180.2	180.2	179.8	179.8	179.8	179.8	180.2	180.7
5°	181.1	181.1	180.7	179.8	179.8	179.3	179.3	179.8	179.3	179.8	180.7
7.5°	180.7	180.7	180.2	179.3	179.3	179.3	179.3	179.3	179.3	179.8	180.7
10°	179.8	179.8	178.9	178.4	178.4	178.4	178.4	178.9	178.9	179.3	180.2
12.5°	178.4	178.0	177.5	177.0	177.0	177.0	177.5	178.0	178.0	178.9	179.8
15°	176.6	176.6	176.1	175.7	175.7	175.7	176.1	176.6	177.0	178.0	179.3
17.5°	174.8	174.8	174.3	174.3	174.3	174.3	174.8	175.2	176.1	177.0	178.4
20°	172.5	172.5	172.1	172.1	172.1	172.5	172.5	173.4	174.3	175.7	177.0
22.5°	169.8	169.8	169.8	169.4	169.8	170.3	170.7	171.6	172.5	173.9	175.7
25°	166.7	166.7	166.7	166.7	167.1	167.1	168.0	168.9	169.8	171.6	173.4
27.5°	163.5	163.5	163.5	163.0	163.9	164.4	164.9	166.2	167.1	169.4	171.2
30°	159.4	159.4	159.4	159.9	160.3	160.8	161.7	163.0	163.9	166.2	168.5
32.5°	155.4	155.4	155.4	155.4	156.7	157.2	157.6	159.0	160.8	163.0	165.3
35°	150.9	150.9	150.9	151.3	152.2	152.7	153.6	154.9	156.7	159.0	161.2
37.5°	145.9	146.3	146.3	146.8	147.7	148.6	149.5	150.9	152.7	154.9	157.2
40°	140.5	140.9	140.9	141.4	142.3	143.2	144.1	145.9	147.7	149.9	152.2
42.5°	135.0	135.5	135.5	136.4	137.3	138.2	139.1	140.9	142.7	145.0	146.8
45°	129.2	129.6	129.6	130.5	131.9	132.3	133.7	135.5	137.3	139.1	140.9
47.5°	122.8	123.3	123.3	124.2	125.6	126.5	127.4	129.2	130.5	132.8	134.6
50°	115.6	116.1	116.5	117.4	119.2	120.1	121.0	122.4	124.2	125.6	127.4
52.5°	108.8	108.8	109.3	110.2	111.6	112.5	112.9	114.3	116.5	118.3	120.1
55°	101.2	101.6	102.1	103.0	104.3	105.2	105.7	107.0	108.4	109.8	111.6
57.5°	94.4	94.4	94.8	95.7	97.1	97.6	98.0	98.9	100.7	102.1	103.4
60°	86.3	86.7	87.2	88.1	89.0	89.9	89.9	91.2	92.6	93.9	94.8
62.5°	79.0	79.0	79.5	80.4	80.8	81.7	81.7	83.1	84.0	85.4	86.3
65°	70.5	70.9	71.4	71.8	72.7	72.7	73.2	74.1	75.0	75.9	77.2
67.5°	62.8	62.8	63.2	63.7	64.1	64.1	64.6	65.5	66.4	67.3	68.2
70°	54.2	54.6	54.6	54.6	55.1	55.6	56.0	56.5	57.4	57.8	58.7
72.5°	45.6	45.6	46.1	46.1	46.5	47.0	47.4	47.9	48.3	49.2	49.7
75°	37.0	37.0	37.5	37.5	37.9	37.9	37.9	38.8	39.3	40.2	40.6
77.5°	28.5	28.9	28.9	28.9	29.4	29.8	29.8	30.3	31.2	31.6	32.1
80°	20.8	20.8	20.8	20.8	21.2	21.7	22.1	22.1	23.0	23.9	24.4
82.5°	13.1	13.1	13.5	14.0	14.0	14.5	14.9	15.4	16.3	16.7	17.2
85°	6.8	6.8	7.2	7.7	8.1	8.6	8.6	9.0	9.9	10.8	11.3
87.5°	2.3	2.7	2.7	3.2	3.6	4.1	4.5	5.0	5.9	6.8	7.2
90°	0.5	0.5	0.5	0.9	1.4	1.4	1.8	2.3	2.7	3.2	4.1
92.5°	4.1	4.1	3.6	4.1	4.1	4.1	4.1	4.5	5.0	5.0	5.9
95°	12.2	11.7	11.7	11.7	11.7	11.7	11.7	12.2	12.6	12.6	13.1
97.5°	23.5	23.5	23.0	23.0	23.5	23.5	23.5	23.9	24.8	24.4	25.3
100°	36.6	36.6	36.1	36.6	37.0	37.5	38.4	38.4	39.3	39.3	40.6
102.5°	51.5	51.5	51.0	51.9	52.4	53.3	53.3	54.2	55.6	55.6	57.4
105°	66.4	66.8	66.8	67.7	68.7	69.6	69.6	70.9	72.7	72.7	75.0
107.5°	82.7	83.1	83.1	84.0	84.9	85.8	86.3	88.1	89.9	90.3	93.0
110°	98.5	98.9	99.4	100.3	101.2	102.5	103.4	105.2	107.5	108.4	110.7



TEST NUMBER: P395511

CATALOG NUMBER: I3-FL-20L93050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	113.4	115.2	115.6	117.0	118.3	119.7	120.6	122.8	125.6	126.9	129.6
115°	130.5	131.4	131.9	133.2	135.0	136.4	137.3	139.6	142.3	144.1	147.2
117.5°	144.5	146.8	147.2	148.6	150.4	151.8	152.7	155.4	158.5	160.8	163.9
120°	159.4	161.2	163.0	163.9	165.3	167.1	168.0	170.7	174.3	176.6	180.2
122.5°	173.0	174.8	176.6	178.0	179.8	180.7	182.0	185.2	188.8	191.5	195.1
125°	186.5	188.8	190.1	191.5	193.8	194.7	196.0	199.2	202.8	206.0	209.6
127.5°	199.6	201.0	203.2	204.1	206.4	207.3	208.7	212.3	215.9	219.1	222.7
130°	211.8	213.6	215.4	215.9	218.6	220.0	221.3	224.5	228.5	231.7	235.3
132.5°	223.6	224.5	226.7	228.1	230.3	231.7	233.1	235.8	239.8	243.0	246.6
135°	234.4	235.3	238.0	239.4	240.7	242.1	243.9	246.6	250.7	253.8	257.4
137.5°	245.2	246.1	248.9	250.2	251.1	252.5	253.8	256.5	260.6	263.8	266.9
140°	255.2	256.1	257.9	259.7	260.6	261.5	262.9	265.6	269.2	272.3	275.5
142.5°	264.2	265.1	266.9	268.7	270.1	270.1	271.4	273.7	277.8	280.9	283.6
145°	272.8	273.2	275.1	276.9	278.7	278.7	279.1	281.4	285.0	288.6	291.3
147.5°	280.9	281.4	282.7	284.5	285.9	286.3	287.2	288.2	291.8	295.4	298.5
150°	288.2	288.6	289.5	291.3	292.2	293.1	294.0	294.5	297.2	300.3	304.0
152.5°	294.5	294.9	295.8	297.2	298.1	299.0	299.9	301.3	302.6	305.8	308.0
155°	300.8	301.3	301.7	303.1	304.0	304.4	304.9	306.7	308.0	309.8	312.1
157.5°	306.2	306.2	306.7	307.6	308.5	308.5	308.9	310.7	312.1	313.9	315.3
160°	310.7	310.7	311.2	312.1	312.1	312.5	313.0	314.3	315.3	317.5	319.3
162.5°	314.8	314.3	314.8	315.3	315.3	315.3	315.7	316.6	318.0	319.8	321.6
165°	318.0	318.0	318.0	318.4	318.4	318.0	318.0	318.9	319.8	321.1	322.5
167.5°	320.7	320.7	320.2	320.7	320.2	320.2	319.8	320.2	320.7	322.0	322.9
170°	322.9	322.5	322.5	322.5	322.0	321.6	321.6	321.6	321.6	322.5	323.4
172.5°	324.7	324.3	323.8	323.8	322.9	322.5	322.5	322.0	322.0	322.5	322.9
175°	325.2	324.7	324.3	324.3	323.4	322.9	322.5	322.5	322.0	322.5	322.9
177.5°	326.1	325.6	324.7	324.7	323.8	322.9	322.9	322.5	322.0	322.5	322.5
180°	321.6	321.6	321.6	321.6	321.6	321.6	321.6	321.6	321.6	321.6	321.6



TEST NUMBER: P395511

CATALOG NUMBER: I3-FL-20L93050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	180.2	180.2	180.2	180.2	180.2	180.2	180.2	180.2	180.2	180.2
2.5°	181.1	181.1	180.7	180.2	180.2	179.8	179.3	178.9	178.4	178.0
5°	181.1	180.7	180.2	180.2	179.8	179.8	179.8	179.3	178.9	178.9
7.5°	181.1	181.1	180.7	180.2	180.2	180.2	180.2	180.2	179.8	179.8
10°	181.1	180.7	180.7	180.7	180.2	180.7	180.7	180.2	180.2	179.8
12.5°	180.7	180.7	180.7	180.7	180.7	180.7	180.7	180.7	180.7	180.2
15°	179.8	180.2	180.2	180.7	180.7	180.7	181.1	181.1	180.7	180.7
17.5°	179.3	179.8	180.2	180.7	180.7	180.7	181.1	181.1	181.1	181.1
20°	178.4	178.9	179.3	179.8	179.8	180.2	180.2	180.7	180.7	180.7
22.5°	176.6	177.0	178.0	178.4	178.9	179.3	179.8	179.8	179.8	179.8
25°	174.8	175.7	176.1	177.0	177.5	178.0	178.4	178.4	178.4	178.9
27.5°	172.5	173.4	174.8	175.2	175.7	176.1	176.6	177.0	177.0	177.0
30°	169.8	171.2	172.1	173.0	173.4	173.9	174.3	174.3	174.8	174.8
32.5°	166.7	168.0	168.9	169.8	170.3	170.7	171.6	171.6	172.1	172.1
35°	162.6	163.9	165.3	166.2	166.7	167.1	168.0	168.5	168.5	168.5
37.5°	158.5	159.9	161.2	162.6	163.0	163.5	164.4	164.4	164.9	164.9
40°	153.6	154.9	156.3	157.6	157.6	158.5	159.0	159.4	159.9	159.9
42.5°	148.6	149.9	150.9	152.2	152.7	153.1	153.6	154.5	154.5	154.9
45°	142.7	144.1	145.0	146.3	146.8	147.2	148.1	148.6	149.0	149.0
47.5°	136.4	137.3	138.2	139.6	140.5	140.9	141.4	141.8	142.3	141.8
50°	129.2	130.1	131.4	132.8	133.2	133.7	134.6	134.6	135.0	135.0
52.5°	121.5	122.8	123.8	125.1	125.6	126.0	126.9	126.9	127.4	127.4
55°	112.9	113.8	114.7	117.0	117.4	117.9	118.8	118.8	119.2	119.7
57.5°	104.8	105.2	106.6	107.5	108.4	108.4	108.8	109.3	109.8	109.8
60°	96.2	96.7	97.6	98.9	98.9	99.4	100.3	100.3	100.7	100.7
62.5°	87.2	88.1	89.0	90.3	89.9	90.3	91.2	91.2	91.7	91.7
65°	78.1	78.6	79.5	80.4	80.8	80.8	81.3	81.7	82.2	82.2
67.5°	68.7	69.6	70.0	71.4	70.9	71.4	71.8	71.8	72.3	72.3
70°	59.6	60.1	61.0	61.4	61.4	61.9	62.3	62.3	62.3	62.8
72.5°	50.6	51.0	51.5	51.9	51.9	52.4	52.8	52.8	53.3	53.3
75°	41.1	42.0	42.5	43.4	42.9	43.4	44.3	44.3	44.3	44.3
77.5°	33.0	33.4	34.3	34.8	34.8	34.8	35.7	35.2	35.7	35.7
80°	24.8	25.3	26.2	26.6	26.6	27.1	27.6	27.6	27.6	28.0
82.5°	17.6	18.5	19.4	19.9	19.9	20.3	20.8	20.8	21.2	21.2
85°	12.2	13.1	14.0	14.0	14.5	14.9	15.4	15.4	15.4	15.4
87.5°	8.1	8.6	9.0	9.5	9.9	9.9	10.4	10.4	10.8	10.8
90°	4.5	5.0	5.4	5.9	5.9	6.3	6.3	6.8	6.8	6.8
92.5°	6.3	6.3	6.8	7.2	7.2	7.2	7.2	7.7	7.7	7.7
95°	13.5	14.0	14.0	14.9	14.9	14.9	15.4	15.4	15.4	15.4
97.5°	26.2	26.2	26.2	27.1	27.1	27.1	27.6	27.6	27.6	28.0
100°	41.1	41.6	41.6	42.9	42.5	43.4	43.4	43.4	43.4	43.8
102.5°	57.8	58.7	59.2	60.5	60.5	60.5	61.4	61.0	61.4	61.4
105°	75.9	76.8	77.2	78.6	79.5	79.5	80.4	79.9	80.4	80.8
107.5°	93.9	95.3	96.2	97.6	98.5	98.9	98.9	99.4	99.8	100.3
110°	112.5	113.8	116.1	117.4	117.9	118.8	119.2	119.7	120.1	121.0





TEST NUMBER: P395511

CATALOG NUMBER: I3-FL-20L93050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	131.9	133.2	135.0	136.9	136.4	137.8	138.7	139.1	139.6	139.1
115°	149.5	151.3	153.1	154.9	154.9	155.8	157.6	158.1	158.1	159.0
117.5°	166.2	168.5	170.3	172.1	172.5	173.4	174.8	176.1	176.1	177.0
120°	182.5	185.2	187.0	188.8	189.7	190.1	191.5	193.3	193.3	193.3
122.5°	197.8	200.1	202.3	204.1	205.0	206.0	206.9	209.1	209.1	210.0
125°	212.3	215.0	217.2	219.1	220.0	220.9	222.7	224.0	224.5	224.5
127.5°	225.8	228.5	230.8	233.1	233.5	234.4	236.2	238.0	238.5	238.9
130°	238.5	241.2	243.4	245.7	246.6	247.1	249.3	250.7	251.6	252.0
132.5°	249.8	252.5	254.7	257.0	257.9	258.8	260.2	262.4	262.9	262.9
135°	260.2	262.9	265.1	267.8	268.3	269.2	271.0	272.3	273.2	273.7
137.5°	269.6	272.3	275.1	277.3	278.2	278.7	280.5	282.3	283.2	283.6
140°	278.2	280.9	283.6	285.4	285.9	287.2	288.6	290.4	291.3	291.8
142.5°	286.3	288.6	290.9	293.1	293.6	294.5	295.8	297.6	298.5	299.0
145°	293.6	295.8	297.6	299.4	299.9	300.8	302.2	303.5	304.4	304.9
147.5°	300.3	302.2	304.0	305.3	305.8	306.7	307.6	308.5	309.4	309.8
150°	306.2	307.1	308.9	309.8	310.3	311.2	312.1	313.0	313.9	314.3
152.5°	310.7	312.1	313.0	314.3	314.8	315.3	316.2	317.1	318.0	318.0
155°	314.3	315.7	316.6	318.0	318.4	318.9	319.8	320.2	321.1	321.1
157.5°	317.1	318.4	319.3	320.2	320.7	321.1	321.6	322.5	323.4	323.4
160°	320.2	320.7	321.1	322.0	322.0	322.5	322.9	323.4	324.3	324.3
162.5°	322.9	323.4	322.5	322.9	322.5	322.9	323.4	323.8	324.3	324.3
165°	323.8	324.7	324.3	324.7	324.7	324.7	324.7	325.2	325.2	325.2
167.5°	323.8	324.7	324.3	324.3	324.7	324.7	325.2	325.6	325.6	325.6
170°	323.8	324.3	323.8	323.4	323.8	323.8	323.8	324.3	324.3	324.3
172.5°	323.4	323.8	322.9	322.5	322.5	322.5	322.0	322.0	321.6	321.6
175°	322.9	322.9	322.0	321.6	321.6	321.6	320.7	320.2	319.8	319.3
177.5°	322.5	322.5	321.1	320.7	320.7	320.2	320.2	319.3	319.3	318.9
180°	321.6	321.6	321.6	321.6	321.6	321.6	321.6	321.6	321.6	321.6

(END OF REPORT)