

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: P395512

Luminaire Tested: **I3-FL-20L93050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395512  
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 (3500K)  
Description: CORELITE I3, FROSTED TOP COVER  
2000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1809.5 lumens  
Efficiency: N/A  
Efficacy: 109.7 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

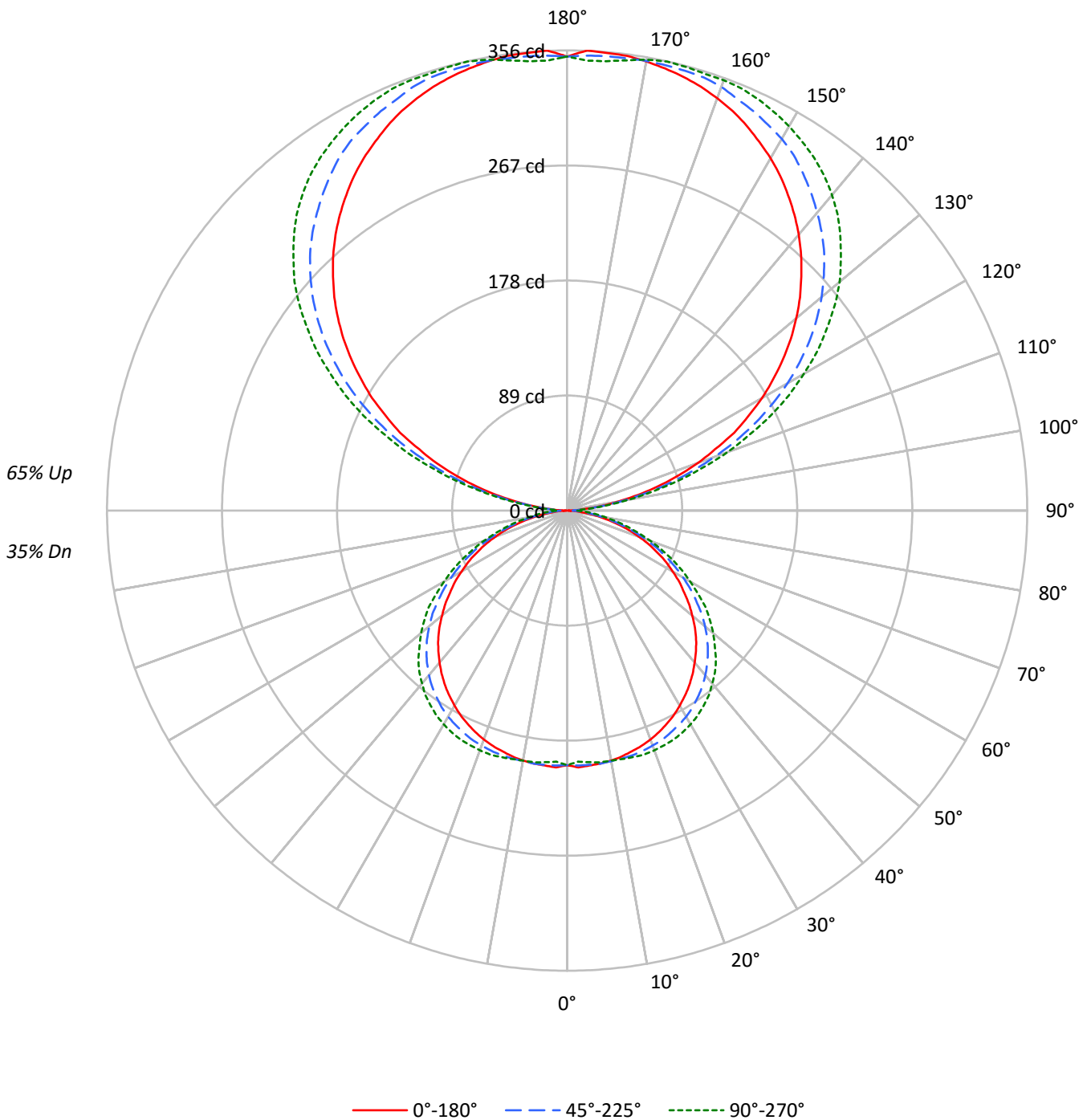
Input Watts (W): 16.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1082	1082	1082
5°	1088	1064	1048
10°	1088	1050	1035
15°	1085	1041	1031
20°	1086	1031	1030
25°	1083	1023	1026
30°	1079	1013	1017
35°	1074	997	1002
40°	1063	976	980
45°	1052	946	949
50°	1028	904	903
55°	998	847	849
60°	964	780	767
65°	918	699	681
70°	852	595	575
75°	742	473	458
80°	579	336	335
85°	314	192	220



TEST NUMBER: P395512

CATALOG NUMBER: I3-FL-20L93050-1D-UNV-W2A-W-4 (3500K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	18.8	1.0
10°-20°	55.2	3.1
20°-30°	87.1	4.8
30°-40°	109.4	6.0
40°-50°	117.7	6.5
50°-60°	108.2	6.0
60°-70°	82.9	4.6
70°-80°	47.2	2.6
80°-90°	14.7	0.8
90°-100°	19.7	1.1
100°-110°	85.8	4.7
110°-120°	157.0	8.7
120°-130°	202.4	11.2
130°-140°	215.3	11.9
140°-150°	198.1	10.9
150°-160°	156.9	8.7
160°-170°	99.4	5.5
170°-180°	33.6	1.9
0°-30°	161.1	8.9
0°-40°	270.5	14.9
0°-60°	496.4	27.4
0°-90°	641.3	35.4
90°-120°	262.5	14.5
90°-150°	878.3	48.5
90°-180°	1168.0	64.5
0°-180°	1809.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	197	197	197	197	197	
5°	198	196	197	196	195	19
15°	193	192	196	197	197	55
25°	182	183	190	194	195	84
35°	165	167	176	182	184	103
45°	141	145	154	160	163	109
55°	110	115	122	128	131	99
65°	77	79	84	88	90	76
75°	40	41	44	47	48	43
85°	7	9	12	16	17	9
90°	0	2	4	6	7	1
95°	13	13	14	16	17	17
105°	72	76	82	87	88	77
115°	143	149	161	169	174	140
125°	204	213	229	240	245	182
135°	256	264	281	293	299	198
145°	298	304	318	328	333	187
155°	329	333	341	348	351	151
165°	347	347	352	355	355	98
175°	355	353	353	351	349	34
180°	351	351	351	351	351	



TEST NUMBER: P395512

CATALOG NUMBER: I3-FL-20L93050-1D-UNV-W2A-W-4 (3500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	196.9	196.9	196.9	196.9	196.9	196.9	196.9	196.9	196.9	196.9	196.9
2.5°	198.9	198.4	197.9	196.9	196.9	196.4	196.4	196.4	196.4	196.9	197.4
5°	197.9	197.9	197.4	196.4	196.4	195.9	195.9	196.4	195.9	196.4	197.4
7.5°	197.4	197.4	196.9	195.9	195.9	195.9	195.9	195.9	195.9	196.4	197.4
10°	196.4	196.4	195.4	194.9	194.9	194.9	194.9	195.4	195.4	195.9	196.9
12.5°	194.9	194.4	193.9	193.4	193.4	193.4	193.9	194.4	194.4	195.4	196.4
15°	192.9	192.9	192.4	192.0	192.0	192.0	192.4	192.9	193.4	194.4	195.9
17.5°	191.0	191.0	190.5	190.5	190.5	190.5	191.0	191.5	192.4	193.4	194.9
20°	188.5	188.5	188.0	188.0	188.0	188.5	188.5	189.5	190.5	192.0	193.4
22.5°	185.5	185.5	185.5	185.0	185.5	186.0	186.5	187.5	188.5	190.0	192.0
25°	182.1	182.1	182.1	182.1	182.6	182.6	183.6	184.5	185.5	187.5	189.5
27.5°	178.6	178.6	178.6	178.1	179.1	179.6	180.1	181.6	182.6	185.0	187.0
30°	174.2	174.2	174.2	174.7	175.2	175.7	176.7	178.1	179.1	181.6	184.1
32.5°	169.7	169.7	169.7	169.7	171.2	171.7	172.2	173.7	175.7	178.1	180.6
35°	164.8	164.8	164.8	165.3	166.3	166.8	167.8	169.3	171.2	173.7	176.2
37.5°	159.4	159.9	159.9	160.4	161.4	162.3	163.3	164.8	166.8	169.3	171.7
40°	153.5	154.0	154.0	154.4	155.4	156.4	157.4	159.4	161.4	163.8	166.3
42.5°	147.5	148.0	148.0	149.0	150.0	151.0	152.0	154.0	155.9	158.4	160.4
45°	141.1	141.6	141.6	142.6	144.1	144.6	146.1	148.0	150.0	152.0	154.0
47.5°	134.2	134.7	134.7	135.7	137.2	138.2	139.2	141.1	142.6	145.1	147.0
50°	126.3	126.8	127.3	128.3	130.3	131.3	132.2	133.7	135.7	137.2	139.2
52.5°	118.9	118.9	119.4	120.4	121.9	122.9	123.4	124.8	127.3	129.3	131.3
55°	110.5	111.0	111.5	112.5	114.0	115.0	115.5	116.9	118.4	119.9	121.9
57.5°	103.1	103.1	103.6	104.6	106.1	106.6	107.1	108.1	110.0	111.5	113.0
60°	94.2	94.7	95.2	96.2	97.2	98.2	98.2	99.7	101.2	102.6	103.6
62.5°	86.4	86.4	86.8	87.8	88.3	89.3	89.3	90.8	91.8	93.3	94.2
65°	77.0	77.5	78.0	78.5	79.4	79.4	79.9	80.9	81.9	82.9	84.4
67.5°	68.6	68.6	69.1	69.6	70.1	70.1	70.6	71.6	72.5	73.5	74.5
70°	59.2	59.7	59.7	59.7	60.2	60.7	61.2	61.7	62.7	63.2	64.1
72.5°	49.8	49.8	50.3	50.3	50.8	51.3	51.8	52.3	52.8	53.8	54.3
75°	40.5	40.5	41.0	41.0	41.4	41.4	41.4	42.4	42.9	43.9	44.4
77.5°	31.1	31.6	31.6	31.6	32.1	32.6	32.6	33.1	34.0	34.5	35.0
80°	22.7	22.7	22.7	22.7	23.2	23.7	24.2	24.2	25.2	26.2	26.6
82.5°	14.3	14.3	14.8	15.3	15.3	15.8	16.3	16.8	17.8	18.3	18.8
85°	7.4	7.4	7.9	8.4	8.9	9.4	9.4	9.9	10.9	11.8	12.3
87.5°	2.5	3.0	3.0	3.5	3.9	4.4	4.9	5.4	6.4	7.4	7.9
90°	0.5	0.5	0.5	1.0	1.5	1.5	2.0	2.5	3.0	3.5	4.4
92.5°	4.4	4.4	3.9	4.4	4.4	4.4	4.4	4.9	5.4	5.4	6.4
95°	13.3	12.8	12.8	12.8	12.8	12.8	12.8	13.3	13.8	13.8	14.3
97.5°	25.7	25.7	25.2	25.2	25.7	25.7	25.7	26.2	27.1	26.6	27.6
100°	40.0	40.0	39.5	40.0	40.5	41.0	41.9	41.9	42.9	42.9	44.4
102.5°	56.3	56.3	55.8	56.7	57.2	58.2	58.2	59.2	60.7	60.7	62.7
105°	72.5	73.0	73.0	74.0	75.0	76.0	76.0	77.5	79.4	79.4	81.9
107.5°	90.3	90.8	90.8	91.8	92.8	93.8	94.2	96.2	98.2	98.7	101.7
110°	107.6	108.1	108.6	109.5	110.5	112.0	113.0	115.0	117.4	118.4	120.9



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CATALOG NUMBER: I3-FL-20L93050-1D-UNV-W2A-W-4 (3500K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	123.9	125.8	126.3	127.8	129.3	130.8	131.8	134.2	137.2	138.7	141.6
115°	142.6	143.6	144.1	145.6	147.5	149.0	150.0	152.5	155.4	157.4	160.9
117.5°	157.9	160.4	160.9	162.3	164.3	165.8	166.8	169.7	173.2	175.7	179.1
120°	174.2	176.2	178.1	179.1	180.6	182.6	183.6	186.5	190.5	192.9	196.9
122.5°	189.0	191.0	192.9	194.4	196.4	197.4	198.9	202.3	206.3	209.2	213.2
125°	203.8	206.3	207.7	209.2	211.7	212.7	214.2	217.6	221.6	225.0	229.0
127.5°	218.1	219.6	222.1	223.0	225.5	226.5	228.0	231.9	235.9	239.3	243.3
130°	231.4	233.4	235.4	235.9	238.8	240.3	241.8	245.2	249.7	253.1	257.1
132.5°	244.3	245.2	247.7	249.2	251.7	253.1	254.6	257.6	262.0	265.5	269.4
135°	256.1	257.1	260.0	261.5	263.0	264.5	266.5	269.4	273.9	277.3	281.3
137.5°	267.9	268.9	271.9	273.4	274.4	275.8	277.3	280.3	284.7	288.2	291.6
140°	278.8	279.8	281.8	283.7	284.7	285.7	287.2	290.1	294.1	297.5	301.0
142.5°	288.7	289.7	291.6	293.6	295.1	295.1	296.6	299.0	303.5	306.9	309.9
145°	298.0	298.5	300.5	302.5	304.5	304.5	305.0	307.4	311.4	315.3	318.3
147.5°	306.9	307.4	308.9	310.9	312.4	312.8	313.8	314.8	318.8	322.7	326.2
150°	314.8	315.3	316.3	318.3	319.3	320.2	321.2	321.7	324.7	328.1	332.1
152.5°	321.7	322.2	323.2	324.7	325.7	326.7	327.6	329.1	330.6	334.1	336.5
155°	328.6	329.1	329.6	331.1	332.1	332.6	333.1	335.1	336.5	338.5	341.0
157.5°	334.6	334.6	335.1	336.0	337.0	337.0	337.5	339.5	341.0	342.9	344.4
160°	339.5	339.5	340.0	341.0	341.0	341.5	342.0	343.4	344.4	346.9	348.9
162.5°	343.9	343.4	343.9	344.4	344.4	344.4	344.9	345.9	347.4	349.4	351.3
165°	347.4	347.4	347.4	347.9	347.9	347.4	347.4	348.4	349.4	350.8	352.3
167.5°	350.3	350.3	349.9	350.3	349.9	349.9	349.4	349.9	350.3	351.8	352.8
170°	352.8	352.3	352.3	352.3	351.8	351.3	351.3	351.3	351.3	352.3	353.3
172.5°	354.8	354.3	353.8	353.8	352.8	352.3	352.3	351.8	351.8	352.3	352.8
175°	355.3	354.8	354.3	354.3	353.3	352.8	352.3	352.3	351.8	352.3	352.8
177.5°	356.3	355.8	354.8	354.8	353.8	352.8	352.8	352.3	351.8	352.3	352.3
180°	351.3	351.3	351.3	351.3	351.3	351.3	351.3	351.3	351.3	351.3	351.3



TEST NUMBER: P395512

CATALOG NUMBER: I3-FL-20L93050-1D-UNV-W2A-W-4 (3500K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	196.9	196.9	196.9	196.9	196.9	196.9	196.9	196.9	196.9	196.9
2.5°	197.9	197.9	197.4	196.9	196.9	196.4	195.9	195.4	194.9	194.4
5°	197.9	197.4	196.9	196.9	196.4	196.4	196.4	195.9	195.4	195.4
7.5°	197.9	197.9	197.4	196.9	196.9	196.9	196.9	196.9	196.4	196.4
10°	197.9	197.4	197.4	197.4	196.9	197.4	197.4	196.9	196.9	196.4
12.5°	197.4	197.4	197.4	197.4	197.4	197.4	197.4	197.4	197.4	196.9
15°	196.4	196.9	196.9	197.4	197.4	197.4	197.9	197.9	197.4	197.4
17.5°	195.9	196.4	196.9	197.4	197.4	197.4	197.9	197.9	197.9	197.9
20°	194.9	195.4	195.9	196.4	196.4	196.9	196.9	197.4	197.4	197.4
22.5°	192.9	193.4	194.4	194.9	195.4	195.9	196.4	196.4	196.4	196.4
25°	191.0	192.0	192.4	193.4	193.9	194.4	194.9	194.9	194.9	195.4
27.5°	188.5	189.5	191.0	191.5	192.0	192.4	192.9	193.4	193.4	193.4
30°	185.5	187.0	188.0	189.0	189.5	190.0	190.5	190.5	191.0	191.0
32.5°	182.1	183.6	184.5	185.5	186.0	186.5	187.5	187.5	188.0	188.0
35°	177.6	179.1	180.6	181.6	182.1	182.6	183.6	184.1	184.1	184.1
37.5°	173.2	174.7	176.2	177.6	178.1	178.6	179.6	179.6	180.1	180.1
40°	167.8	169.3	170.7	172.2	172.2	173.2	173.7	174.2	174.7	174.7
42.5°	162.3	163.8	164.8	166.3	166.8	167.3	167.8	168.8	168.8	169.3
45°	155.9	157.4	158.4	159.9	160.4	160.9	161.9	162.3	162.8	162.8
47.5°	149.0	150.0	151.0	152.5	153.5	154.0	154.4	154.9	155.4	154.9
50°	141.1	142.1	143.6	145.1	145.6	146.1	147.0	147.0	147.5	147.5
52.5°	132.7	134.2	135.2	136.7	137.2	137.7	138.7	138.7	139.2	139.2
55°	123.4	124.3	125.3	127.8	128.3	128.8	129.8	129.8	130.3	130.8
57.5°	114.5	115.0	116.5	117.4	118.4	118.4	118.9	119.4	119.9	119.9
60°	105.1	105.6	106.6	108.1	108.1	108.6	109.5	109.5	110.0	110.0
62.5°	95.2	96.2	97.2	98.7	98.2	98.7	99.7	99.7	100.2	100.2
65°	85.4	85.9	86.8	87.8	88.3	88.3	88.8	89.3	89.8	89.8
67.5°	75.0	76.0	76.5	78.0	77.5	78.0	78.5	78.5	79.0	79.0
70°	65.1	65.6	66.6	67.1	67.1	67.6	68.1	68.1	68.1	68.6
72.5°	55.3	55.8	56.3	56.7	56.7	57.2	57.7	57.7	58.2	58.2
75°	44.9	45.9	46.4	47.4	46.9	47.4	48.4	48.4	48.4	48.4
77.5°	36.0	36.5	37.5	38.0	38.0	38.0	39.0	38.5	39.0	39.0
80°	27.1	27.6	28.6	29.1	29.1	29.6	30.1	30.1	30.1	30.6
82.5°	19.2	20.2	21.2	21.7	21.7	22.2	22.7	22.7	23.2	23.2
85°	13.3	14.3	15.3	15.3	15.8	16.3	16.8	16.8	16.8	16.8
87.5°	8.9	9.4	9.9	10.4	10.9	10.9	11.3	11.3	11.8	11.8
90°	4.9	5.4	5.9	6.4	6.4	6.9	6.9	7.4	7.4	7.4
92.5°	6.9	6.9	7.4	7.9	7.9	7.9	7.9	8.4	8.4	8.4
95°	14.8	15.3	15.3	16.3	16.3	16.3	16.8	16.8	16.8	16.8
97.5°	28.6	28.6	28.6	29.6	29.6	29.6	30.1	30.1	30.1	30.6
100°	44.9	45.4	45.4	46.9	46.4	47.4	47.4	47.4	47.4	47.9
102.5°	63.2	64.1	64.6	66.1	66.1	66.1	67.1	66.6	67.1	67.1
105°	82.9	83.9	84.4	85.9	86.8	86.8	87.8	87.3	87.8	88.3
107.5°	102.6	104.1	105.1	106.6	107.6	108.1	108.1	108.6	109.1	109.5
110°	122.9	124.3	126.8	128.3	128.8	129.8	130.3	130.8	131.3	132.2





TEST NUMBER: P395512

CATALOG NUMBER: I3-FL-20L93050-1D-UNV-W2A-W-4 (3500K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	144.1	145.6	147.5	149.5	149.0	150.5	151.5	152.0	152.5	152.0
115°	163.3	165.3	167.3	169.3	169.3	170.2	172.2	172.7	172.7	173.7
117.5°	181.6	184.1	186.0	188.0	188.5	189.5	191.0	192.4	192.4	193.4
120°	199.4	202.3	204.3	206.3	207.2	207.7	209.2	211.2	211.2	211.2
122.5°	216.1	218.6	221.1	223.0	224.0	225.0	226.0	228.5	228.5	229.5
125°	231.9	234.9	237.3	239.3	240.3	241.3	243.3	244.8	245.2	245.2
127.5°	246.7	249.7	252.2	254.6	255.1	256.1	258.1	260.0	260.5	261.0
130°	260.5	263.5	266.0	268.4	269.4	269.9	272.4	273.9	274.9	275.3
132.5°	272.9	275.8	278.3	280.8	281.8	282.7	284.2	286.7	287.2	287.2
135°	284.2	287.2	289.7	292.6	293.1	294.1	296.1	297.5	298.5	299.0
137.5°	294.6	297.5	300.5	303.0	304.0	304.5	306.4	308.4	309.4	309.9
140°	304.0	306.9	309.9	311.9	312.4	313.8	315.3	317.3	318.3	318.8
142.5°	312.8	315.3	317.8	320.2	320.7	321.7	323.2	325.2	326.2	326.7
145°	320.7	323.2	325.2	327.2	327.6	328.6	330.1	331.6	332.6	333.1
147.5°	328.1	330.1	332.1	333.6	334.1	335.1	336.0	337.0	338.0	338.5
150°	334.6	335.5	337.5	338.5	339.0	340.0	341.0	342.0	342.9	343.4
152.5°	339.5	341.0	342.0	343.4	343.9	344.4	345.4	346.4	347.4	347.4
155°	343.4	344.9	345.9	347.4	347.9	348.4	349.4	349.9	350.8	350.8
157.5°	346.4	347.9	348.9	349.9	350.3	350.8	351.3	352.3	353.3	353.3
160°	349.9	350.3	350.8	351.8	351.8	352.3	352.8	353.3	354.3	354.3
162.5°	352.8	353.3	352.3	352.8	352.3	352.8	353.3	353.8	354.3	354.3
165°	353.8	354.8	354.3	354.8	354.8	354.8	354.8	355.3	355.3	355.3
167.5°	353.8	354.8	354.3	354.3	354.8	354.8	355.3	355.8	355.8	355.8
170°	353.8	354.3	353.8	353.3	353.8	353.8	353.8	354.3	354.3	354.3
172.5°	353.3	353.8	352.8	352.3	352.3	352.3	351.8	351.8	351.3	351.3
175°	352.8	352.8	351.8	351.3	351.3	351.3	350.3	349.9	349.4	348.9
177.5°	352.3	352.3	350.8	350.3	350.3	349.9	349.9	348.9	348.9	348.4
180°	351.3	351.3	351.3	351.3	351.3	351.3	351.3	351.3	351.3	351.3

(END OF REPORT)