

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: P395515

Luminaire Tested: **I3-FL-20L93050-1D-UNV-W2A-W-4 (5000K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395515  
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 (5000K)  
Description: CORELITE I3, FROSTED TOP COVER  
2000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1988.3 lumens  
Efficiency: N/A  
Efficacy: 117.7 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

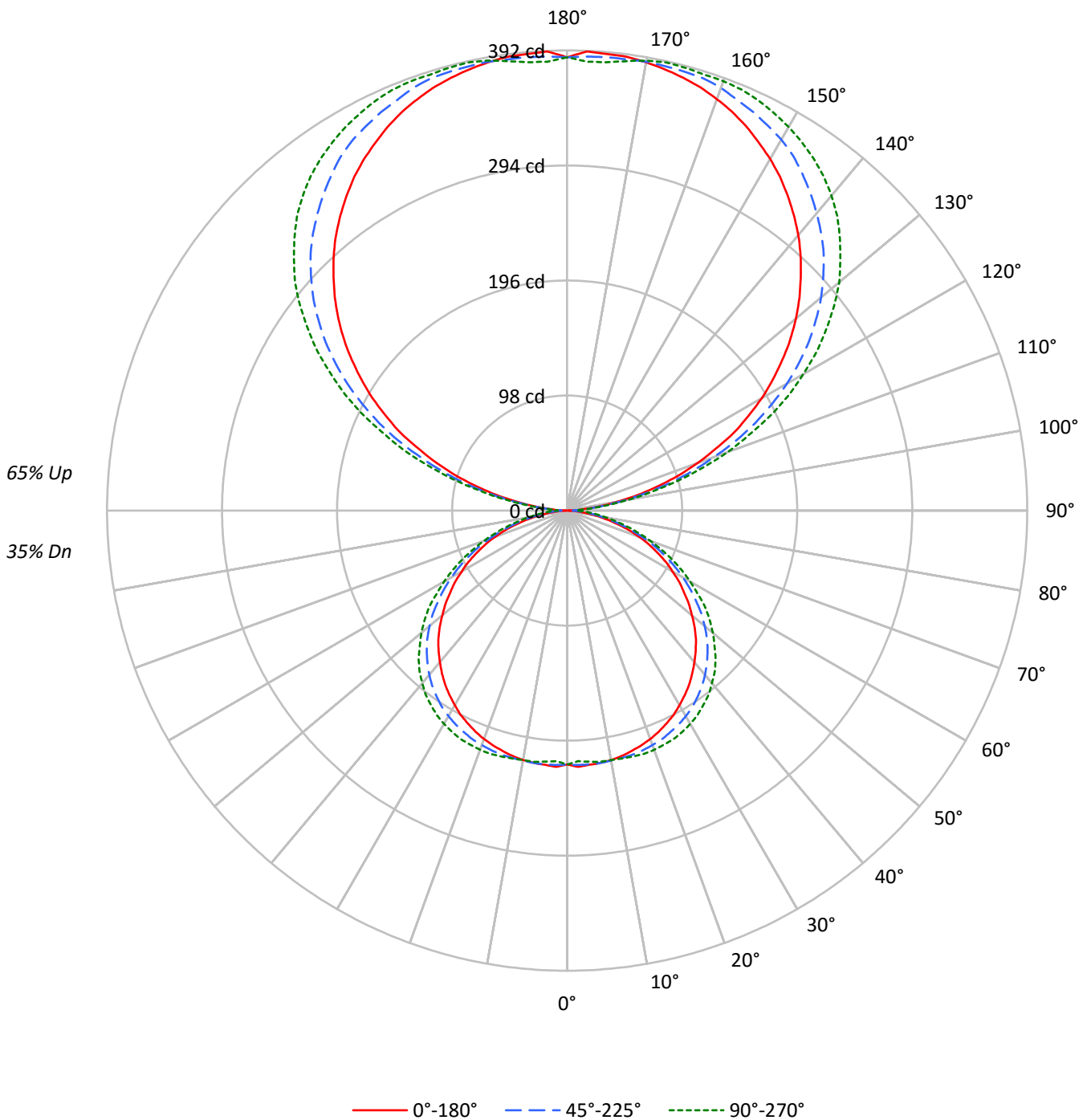
Input Watts (W): 16.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1189	1189	1189
5°	1195	1170	1151
10°	1195	1153	1138
15°	1193	1144	1133
20°	1193	1133	1131
25°	1190	1123	1127
30°	1186	1113	1117
35°	1180	1095	1100
40°	1168	1072	1076
45°	1156	1039	1043
50°	1130	993	992
55°	1098	930	933
60°	1061	857	843
65°	1008	768	749
70°	937	655	632
75°	816	520	503
80°	635	370	368
85°	344	212	241



TEST NUMBER: P395515

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	20.6	1.0
10°-20°	60.7	3.1
20°-30°	95.7	4.8
30°-40°	120.2	6.0
40°-50°	129.3	6.5
50°-60°	118.9	6.0
60°-70°	91.1	4.6
70°-80°	51.9	2.6
80°-90°	16.2	0.8
90°-100°	21.7	1.1
100°-110°	94.2	4.7
110°-120°	172.5	8.7
120°-130°	222.4	11.2
130°-140°	236.6	11.9
140°-150°	217.7	10.9
150°-160°	172.5	8.7
160°-170°	109.2	5.5
170°-180°	37.0	1.9
0°-30°	177.0	8.9
0°-40°	297.2	14.9
0°-60°	545.4	27.4
0°-90°	704.6	35.4
90°-120°	288.4	14.5
90°-150°	965.1	48.5
90°-180°	1284.0	64.6
0°-180°	1988.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	216	216	216	216	216	
5°	217	215	217	216	215	21
15°	212	211	215	217	217	60
25°	200	201	208	213	215	92
35°	181	183	194	200	202	113
45°	155	159	169	176	179	119
55°	122	126	134	141	144	109
65°	85	87	93	97	99	84
75°	44	46	49	52	53	47
85°	8	10	14	17	18	10
90°	0	2	5	7	8	1
95°	15	14	16	18	18	18
105°	80	84	90	95	97	85
115°	157	164	177	186	191	154
125°	224	234	252	264	270	200
135°	281	291	309	322	329	217
145°	328	334	350	360	366	205
155°	361	366	375	382	386	166
165°	382	382	387	390	390	108
175°	390	388	388	386	383	37
180°	386	386	386	386	386	



TEST NUMBER: P395515

CATALOG NUMBER: I3-FL-20L93050-1D-UNV-W2A-W-4 (5000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	216.3	216.3	216.3	216.3	216.3	216.3	216.3	216.3	216.3	216.3	216.3
2.5°	218.5	218.0	217.4	216.3	216.3	215.8	215.8	215.8	215.8	216.3	216.9
5°	217.4	217.4	216.9	215.8	215.8	215.3	215.3	215.8	215.3	215.8	216.9
7.5°	216.9	216.9	216.3	215.3	215.3	215.3	215.3	215.3	215.3	215.8	216.9
10°	215.8	215.8	214.7	214.2	214.2	214.2	214.2	214.7	214.7	215.3	216.3
12.5°	214.2	213.6	213.1	212.5	212.5	212.5	213.1	213.6	213.6	214.7	215.8
15°	212.0	212.0	211.5	210.9	210.9	210.9	211.5	212.0	212.5	213.6	215.3
17.5°	209.8	209.8	209.3	209.3	209.3	209.3	209.8	210.4	211.5	212.5	214.2
20°	207.1	207.1	206.6	206.6	206.6	207.1	207.1	208.2	209.3	210.9	212.5
22.5°	203.9	203.9	203.9	203.3	203.9	204.4	205.0	206.0	207.1	208.8	210.9
25°	200.1	200.1	200.1	200.1	200.6	200.6	201.7	202.8	203.9	206.0	208.2
27.5°	196.3	196.3	196.3	195.7	196.8	197.4	197.9	199.5	200.6	203.3	205.5
30°	191.4	191.4	191.4	191.9	192.5	193.0	194.1	195.7	196.8	199.5	202.2
32.5°	186.5	186.5	186.5	186.5	188.1	188.7	189.2	190.9	193.0	195.7	198.4
35°	181.1	181.1	181.1	181.6	182.7	183.3	184.4	186.0	188.1	190.9	193.6
37.5°	175.1	175.7	175.7	176.2	177.3	178.4	179.5	181.1	183.3	186.0	188.7
40°	168.6	169.2	169.2	169.7	170.8	171.9	173.0	175.1	177.3	180.0	182.7
42.5°	162.1	162.7	162.7	163.7	164.8	165.9	167.0	169.2	171.3	174.1	176.2
45°	155.1	155.6	155.6	156.7	158.3	158.9	160.5	162.7	164.8	167.0	169.2
47.5°	147.5	148.0	148.0	149.1	150.7	151.8	152.9	155.1	156.7	159.4	161.6
50°	138.8	139.3	139.9	141.0	143.1	144.2	145.3	146.9	149.1	150.7	152.9
52.5°	130.7	130.7	131.2	132.3	133.9	135.0	135.6	137.2	139.9	142.1	144.2
55°	121.5	122.0	122.5	123.6	125.3	126.3	126.9	128.5	130.1	131.8	133.9
57.5°	113.3	113.3	113.9	114.9	116.6	117.1	117.7	118.7	120.9	122.5	124.2
60°	103.6	104.1	104.6	105.7	106.8	107.9	107.9	109.5	111.2	112.8	113.9
62.5°	94.9	94.9	95.4	96.5	97.1	98.1	98.1	99.8	100.9	102.5	103.6
65°	84.6	85.1	85.7	86.2	87.3	87.3	87.8	88.9	90.0	91.1	92.7
67.5°	75.4	75.4	75.9	76.5	77.0	77.0	77.5	78.6	79.7	80.8	81.9
70°	65.1	65.6	65.6	65.6	66.1	66.7	67.2	67.8	68.9	69.4	70.5
72.5°	54.8	54.8	55.3	55.3	55.8	56.4	56.9	57.5	58.0	59.1	59.6
75°	44.5	44.5	45.0	45.0	45.5	45.5	45.5	46.6	47.2	48.3	48.8
77.5°	34.2	34.7	34.7	34.7	35.2	35.8	35.8	36.3	37.4	38.0	38.5
80°	24.9	24.9	24.9	24.9	25.5	26.0	26.6	26.6	27.7	28.7	29.3
82.5°	15.7	15.7	16.3	16.8	16.8	17.4	17.9	18.4	19.5	20.1	20.6
85°	8.1	8.1	8.7	9.2	9.8	10.3	10.3	10.8	11.9	13.0	13.6
87.5°	2.7	3.3	3.3	3.8	4.3	4.9	5.4	6.0	7.0	8.1	8.7
90°	0.5	0.5	0.5	1.1	1.6	1.6	2.2	2.7	3.3	3.8	4.9
92.5°	4.9	4.9	4.3	4.9	4.9	4.9	4.9	5.4	6.0	6.0	7.0
95°	14.6	14.1	14.1	14.1	14.1	14.1	14.1	14.6	15.2	15.2	15.7
97.5°	28.2	28.2	27.7	27.7	28.2	28.2	28.2	28.7	29.8	29.3	30.4
100°	43.9	43.9	43.4	43.9	44.5	45.0	46.1	46.1	47.2	47.2	48.8
102.5°	61.8	61.8	61.3	62.4	62.9	64.0	64.0	65.1	66.7	66.7	68.9
105°	79.7	80.2	80.2	81.3	82.4	83.5	83.5	85.1	87.3	87.3	90.0
107.5°	99.2	99.8	99.8	100.9	101.9	103.0	103.6	105.7	107.9	108.4	111.7
110°	118.2	118.7	119.3	120.4	121.5	123.1	124.2	126.3	129.0	130.1	132.8



TEST NUMBER: P395515

CATALOG NUMBER: I3-FL-20L93050-1D-UNV-W2A-W-4 (5000K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	136.1	138.3	138.8	140.4	142.1	143.7	144.8	147.5	150.7	152.4	155.6
115°	156.7	157.8	158.3	160.0	162.1	163.7	164.8	167.5	170.8	173.0	176.8
117.5°	173.5	176.2	176.8	178.4	180.6	182.2	183.3	186.5	190.3	193.0	196.8
120°	191.4	193.6	195.7	196.8	198.4	200.6	201.7	205.0	209.3	212.0	216.3
122.5°	207.7	209.8	212.0	213.6	215.8	216.9	218.5	222.3	226.6	229.9	234.2
125°	223.9	226.6	228.3	229.9	232.6	233.7	235.3	239.1	243.5	247.2	251.6
127.5°	239.7	241.3	244.0	245.1	247.8	248.9	250.5	254.8	259.2	263.0	267.3
130°	254.3	256.5	258.6	259.2	262.4	264.1	265.7	269.5	274.4	278.2	282.5
132.5°	268.4	269.5	272.2	273.8	276.5	278.2	279.8	283.0	287.9	291.7	296.0
135°	281.4	282.5	285.7	287.4	289.0	290.6	292.8	296.0	300.9	304.7	309.1
137.5°	294.4	295.5	298.8	300.4	301.5	303.1	304.7	308.0	312.9	316.7	320.4
140°	306.4	307.4	309.6	311.8	312.9	313.9	315.6	318.8	323.2	327.0	330.7
142.5°	317.2	318.3	320.4	322.6	324.2	324.2	325.9	328.6	333.5	337.3	340.5
145°	327.5	328.0	330.2	332.4	334.5	334.5	335.1	337.8	342.1	346.5	349.7
147.5°	337.3	337.8	339.4	341.6	343.2	343.8	344.8	345.9	350.3	354.6	358.4
150°	345.9	346.5	347.6	349.7	350.8	351.9	353.0	353.5	356.8	360.6	364.9
152.5°	353.5	354.1	355.1	356.8	357.9	358.9	360.0	361.7	363.3	367.1	369.8
155°	361.1	361.7	362.2	363.8	364.9	365.5	366.0	368.2	369.8	372.0	374.7
157.5°	367.6	367.6	368.2	369.2	370.3	370.3	370.9	373.0	374.7	376.8	378.5
160°	373.0	373.0	373.6	374.7	374.7	375.2	375.8	377.4	378.5	381.2	383.3
162.5°	377.9	377.4	377.9	378.5	378.5	378.5	379.0	380.1	381.7	383.9	386.1
165°	381.7	381.7	381.7	382.3	382.3	381.7	381.7	382.8	383.9	385.5	387.1
167.5°	385.0	385.0	384.4	385.0	384.4	384.4	383.9	384.4	385.0	386.6	387.7
170°	387.7	387.1	387.1	387.1	386.6	386.1	386.1	386.1	386.1	387.1	388.2
172.5°	389.9	389.3	388.8	388.8	387.7	387.1	387.1	386.6	386.6	387.1	387.7
175°	390.4	389.9	389.3	389.3	388.2	387.7	387.1	387.1	386.6	387.1	387.7
177.5°	391.5	390.9	389.9	389.9	388.8	387.7	387.7	387.1	386.6	387.1	387.1
180°	386.1	386.1	386.1	386.1	386.1	386.1	386.1	386.1	386.1	386.1	386.1



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	216.3	216.3	216.3	216.3	216.3	216.3	216.3	216.3	216.3	216.3
2.5°	217.4	217.4	216.9	216.3	216.3	215.8	215.3	214.7	214.2	213.6
5°	217.4	216.9	216.3	216.3	215.8	215.8	215.8	215.3	214.7	214.7
7.5°	217.4	217.4	216.9	216.3	216.3	216.3	216.3	216.3	215.8	215.8
10°	217.4	216.9	216.9	216.9	216.3	216.9	216.9	216.3	216.3	215.8
12.5°	216.9	216.9	216.9	216.9	216.9	216.9	216.9	216.9	216.9	216.3
15°	215.8	216.3	216.3	216.9	216.9	216.9	217.4	217.4	216.9	216.9
17.5°	215.3	215.8	216.3	216.9	216.9	216.9	217.4	217.4	217.4	217.4
20°	214.2	214.7	215.3	215.8	215.8	216.3	216.3	216.9	216.9	216.9
22.5°	212.0	212.5	213.6	214.2	214.7	215.3	215.8	215.8	215.8	215.8
25°	209.8	210.9	211.5	212.5	213.1	213.6	214.2	214.2	214.2	214.7
27.5°	207.1	208.2	209.8	210.4	210.9	211.5	212.0	212.5	212.5	212.5
30°	203.9	205.5	206.6	207.7	208.2	208.8	209.3	209.3	209.8	209.8
32.5°	200.1	201.7	202.8	203.9	204.4	205.0	206.0	206.0	206.6	206.6
35°	195.2	196.8	198.4	199.5	200.1	200.6	201.7	202.2	202.2	202.2
37.5°	190.3	191.9	193.6	195.2	195.7	196.3	197.4	197.4	197.9	197.9
40°	184.4	186.0	187.6	189.2	189.2	190.3	190.9	191.4	191.9	191.9
42.5°	178.4	180.0	181.1	182.7	183.3	183.8	184.4	185.4	185.4	186.0
45°	171.3	173.0	174.1	175.7	176.2	176.8	177.8	178.4	178.9	178.9
47.5°	163.7	164.8	165.9	167.5	168.6	169.2	169.7	170.3	170.8	170.3
50°	155.1	156.2	157.8	159.4	160.0	160.5	161.6	161.6	162.1	162.1
52.5°	145.9	147.5	148.6	150.2	150.7	151.3	152.4	152.4	152.9	152.9
55°	135.6	136.6	137.7	140.4	141.0	141.5	142.6	142.6	143.1	143.7
57.5°	125.8	126.3	128.0	129.0	130.1	130.1	130.7	131.2	131.8	131.8
60°	115.5	116.0	117.1	118.7	118.7	119.3	120.4	120.4	120.9	120.9
62.5°	104.6	105.7	106.8	108.4	107.9	108.4	109.5	109.5	110.1	110.1
65°	93.8	94.3	95.4	96.5	97.1	97.1	97.6	98.1	98.7	98.7
67.5°	82.4	83.5	84.0	85.7	85.1	85.7	86.2	86.2	86.8	86.8
70°	71.6	72.1	73.2	73.7	73.7	74.3	74.8	74.8	74.8	75.4
72.5°	60.7	61.3	61.8	62.4	62.4	62.9	63.4	63.4	64.0	64.0
75°	49.3	50.4	51.0	52.1	51.5	52.1	53.1	53.1	53.1	53.1
77.5°	39.6	40.1	41.2	41.8	41.8	41.8	42.8	42.3	42.8	42.8
80°	29.8	30.4	31.4	32.0	32.0	32.5	33.1	33.1	33.1	33.6
82.5°	21.1	22.2	23.3	23.9	23.9	24.4	24.9	24.9	25.5	25.5
85°	14.6	15.7	16.8	16.8	17.4	17.9	18.4	18.4	18.4	18.4
87.5°	9.8	10.3	10.8	11.4	11.9	11.9	12.5	12.5	13.0	13.0
90°	5.4	6.0	6.5	7.0	7.0	7.6	7.6	8.1	8.1	8.1
92.5°	7.6	7.6	8.1	8.7	8.7	8.7	8.7	9.2	9.2	9.2
95°	16.3	16.8	16.8	17.9	17.9	17.9	18.4	18.4	18.4	18.4
97.5°	31.4	31.4	31.4	32.5	32.5	32.5	33.1	33.1	33.1	33.6
100°	49.3	49.9	49.9	51.5	51.0	52.1	52.1	52.1	52.1	52.6
102.5°	69.4	70.5	71.0	72.7	72.7	72.7	73.7	73.2	73.7	73.7
105°	91.1	92.2	92.7	94.3	95.4	95.4	96.5	96.0	96.5	97.1
107.5°	112.8	114.4	115.5	117.1	118.2	118.7	118.7	119.3	119.8	120.4
110°	135.0	136.6	139.3	141.0	141.5	142.6	143.1	143.7	144.2	145.3





TEST NUMBER: P395515

CATALOG NUMBER: I3-FL-20L93050-1D-UNV-W2A-W-4 (5000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	158.3	160.0	162.1	164.3	163.7	165.4	166.5	167.0	167.5	167.0
115°	179.5	181.6	183.8	186.0	186.0	187.1	189.2	189.8	189.8	190.9
117.5°	199.5	202.2	204.4	206.6	207.1	208.2	209.8	211.5	211.5	212.5
120°	219.1	222.3	224.5	226.6	227.7	228.3	229.9	232.1	232.1	232.1
122.5°	237.5	240.2	242.9	245.1	246.2	247.2	248.3	251.0	251.0	252.1
125°	254.8	258.1	260.8	263.0	264.1	265.1	267.3	268.9	269.5	269.5
127.5°	271.1	274.4	277.1	279.8	280.3	281.4	283.6	285.7	286.3	286.8
130°	286.3	289.5	292.3	295.0	296.0	296.6	299.3	300.9	302.0	302.6
132.5°	299.8	303.1	305.8	308.5	309.6	310.7	312.3	315.0	315.6	315.6
135°	312.3	315.6	318.3	321.5	322.1	323.2	325.3	327.0	328.0	328.6
137.5°	323.7	327.0	330.2	332.9	334.0	334.5	336.7	338.9	340.0	340.5
140°	334.0	337.3	340.5	342.7	343.2	344.8	346.5	348.6	349.7	350.3
142.5°	343.8	346.5	349.2	351.9	352.4	353.5	355.1	357.3	358.4	358.9
145°	352.4	355.1	357.3	359.5	360.0	361.1	362.7	364.4	365.5	366.0
147.5°	360.6	362.7	364.9	366.5	367.1	368.2	369.2	370.3	371.4	372.0
150°	367.6	368.7	370.9	372.0	372.5	373.6	374.7	375.8	376.8	377.4
152.5°	373.0	374.7	375.8	377.4	377.9	378.5	379.5	380.6	381.7	381.7
155°	377.4	379.0	380.1	381.7	382.3	382.8	383.9	384.4	385.5	385.5
157.5°	380.6	382.3	383.3	384.4	385.0	385.5	386.1	387.1	388.2	388.2
160°	384.4	385.0	385.5	386.6	386.6	387.1	387.7	388.2	389.3	389.3
162.5°	387.7	388.2	387.1	387.7	387.1	387.7	388.2	388.8	389.3	389.3
165°	388.8	389.9	389.3	389.9	389.9	389.9	389.9	390.4	390.4	390.4
167.5°	388.8	389.9	389.3	389.3	389.9	389.9	390.4	390.9	390.9	390.9
170°	388.8	389.3	388.8	388.2	388.8	388.8	388.8	389.3	389.3	389.3
172.5°	388.2	388.8	387.7	387.1	387.1	387.1	386.6	386.6	386.1	386.1
175°	387.7	387.7	386.6	386.1	386.1	386.1	385.0	384.4	383.9	383.3
177.5°	387.1	387.1	385.5	385.0	385.0	384.4	384.4	383.3	383.3	382.8
180°	386.1	386.1	386.1	386.1	386.1	386.1	386.1	386.1	386.1	386.1

(END OF REPORT)