

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: P395498

Luminaire Tested: **I3-FL-20L83050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395498  
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-20L83050-1D-UNV-W2A-W-4 (3000K)  
Description: CORELITE I3, FROSTED TOP COVER  
2000 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: 2013.9 lumens  
Efficiency: N/A  
Efficacy: 124.3 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

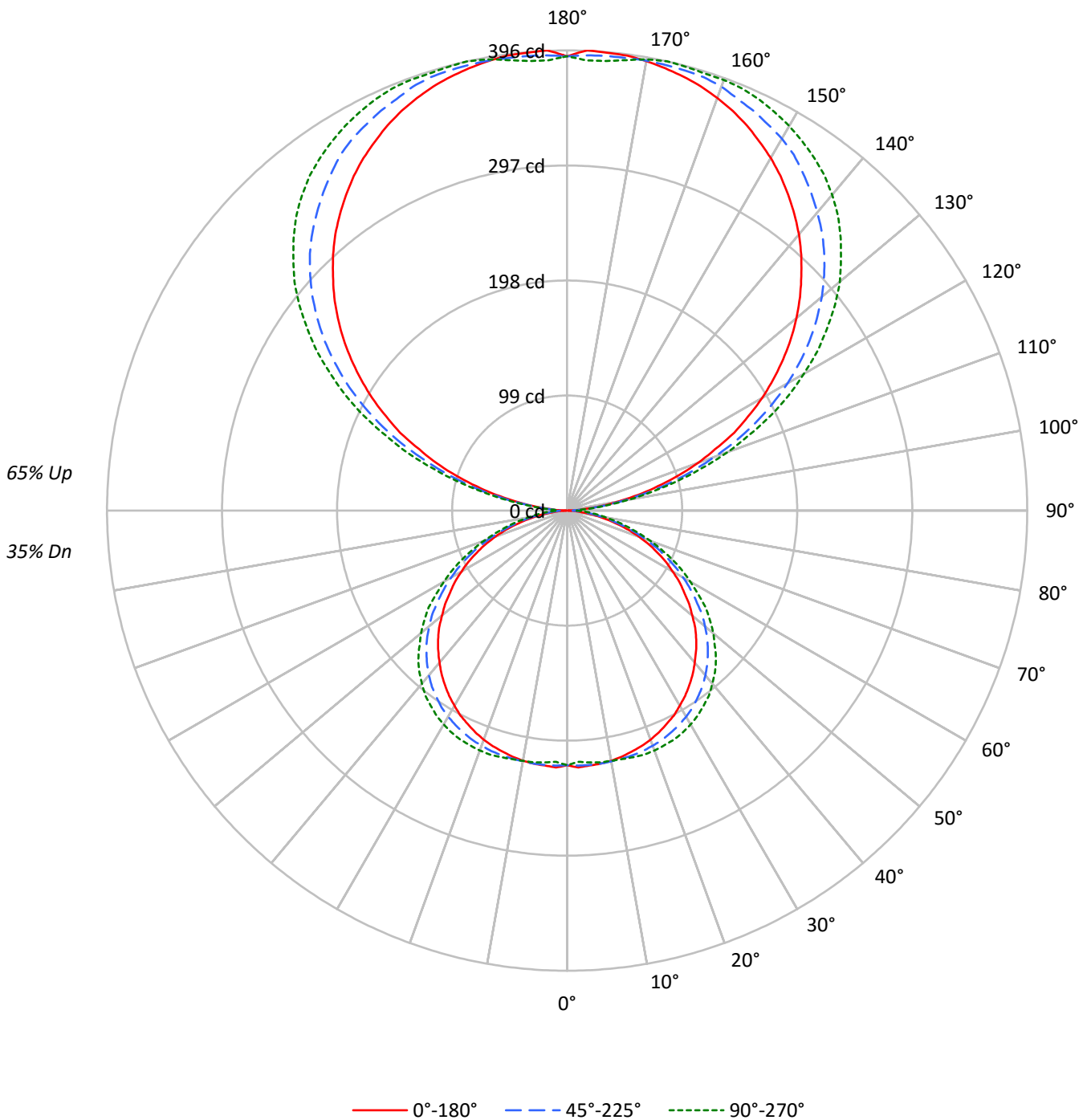
Input Watts (W): 16.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### 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	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°	1204	1204	1204
5°	1210	1185	1166
10°	1211	1168	1152
15°	1208	1158	1148
20°	1208	1148	1146
25°	1205	1138	1142
30°	1201	1127	1131
35°	1195	1109	1114
40°	1183	1086	1090
45°	1171	1052	1056
50°	1144	1006	1005
55°	1111	942	945
60°	1074	868	854
65°	1021	778	758
70°	948	663	640
75°	825	527	509
80°	645	375	372
85°	348	214	245



TEST NUMBER: P395498

CATALOG NUMBER: I3-FL-20L83050-1D-UNV-W2A-W-4 (3000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	20.9	1.0
10°-20°	61.4	3.1
20°-30°	96.9	4.8
30°-40°	121.8	6.0
40°-50°	130.9	6.5
50°-60°	120.5	6.0
60°-70°	92.3	4.6
70°-80°	52.5	2.6
80°-90°	16.4	0.8
90°-100°	21.9	1.1
100°-110°	95.4	4.7
110°-120°	174.7	8.7
120°-130°	225.2	11.2
130°-140°	239.7	11.9
140°-150°	220.5	10.9
150°-160°	174.7	8.7
160°-170°	110.6	5.5
170°-180°	37.4	1.9
0°-30°	179.2	8.9
0°-40°	301.0	14.9
0°-60°	552.4	27.4
0°-90°	713.7	35.4
90°-120°	292.1	14.5
90°-150°	977.5	48.5
90°-180°	1300.0	64.6
0°-180°	2013.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	219	219	219	219	219	
5°	220	218	220	219	218	21
15°	215	214	218	220	220	61
25°	203	203	211	216	218	93
35°	183	186	196	203	205	115
45°	157	161	171	178	181	121
55°	123	128	136	143	146	110
65°	86	88	94	98	100	85
75°	45	46	49	52	54	48
85°	8	10	14	18	19	10
90°	0	2	5	7	8	1
95°	15	14	16	18	19	19
105°	81	85	91	97	98	86
115°	159	166	179	188	193	156
125°	227	237	255	268	273	203
135°	285	294	313	326	333	220
145°	332	339	354	365	371	208
155°	366	370	380	387	390	169
165°	387	387	392	395	395	109
175°	395	393	393	391	388	38
180°	391	391	391	391	391	



TEST NUMBER: P395498

CATALOG NUMBER: I3-FL-20L83050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	219.1	219.1	219.1	219.1	219.1	219.1	219.1	219.1	219.1	219.1	219.1
2.5°	221.3	220.8	220.2	219.1	219.1	218.6	218.6	218.6	218.6	219.1	219.7
5°	220.2	220.2	219.7	218.6	218.6	218.0	218.0	218.6	218.0	218.6	219.7
7.5°	219.7	219.7	219.1	218.0	218.0	218.0	218.0	218.0	218.0	218.6	219.7
10°	218.6	218.6	217.5	216.9	216.9	216.9	216.9	217.5	217.5	218.0	219.1
12.5°	216.9	216.4	215.8	215.3	215.3	215.3	215.8	216.4	216.4	217.5	218.6
15°	214.7	214.7	214.2	213.6	213.6	213.6	214.2	214.7	215.3	216.4	218.0
17.5°	212.5	212.5	212.0	212.0	212.0	212.0	212.5	213.1	214.2	215.3	216.9
20°	209.8	209.8	209.2	209.2	209.2	209.8	209.8	210.9	212.0	213.6	215.3
22.5°	206.5	206.5	206.5	205.9	206.5	207.0	207.6	208.7	209.8	211.4	213.6
25°	202.6	202.6	202.6	202.6	203.2	203.2	204.3	205.4	206.5	208.7	210.9
27.5°	198.8	198.8	198.8	198.3	199.4	199.9	200.5	202.1	203.2	205.9	208.1
30°	193.9	193.9	193.9	194.4	195.0	195.5	196.6	198.3	199.4	202.1	204.8
32.5°	188.9	188.9	188.9	188.9	190.6	191.1	191.7	193.3	195.5	198.3	201.0
35°	183.4	183.4	183.4	184.0	185.1	185.6	186.7	188.4	190.6	193.3	196.1
37.5°	177.4	177.9	177.9	178.5	179.6	180.7	181.8	183.4	185.6	188.4	191.1
40°	170.8	171.3	171.3	171.9	173.0	174.1	175.2	177.4	179.6	182.3	185.1
42.5°	164.2	164.8	164.8	165.9	167.0	168.0	169.1	171.3	173.5	176.3	178.5
45°	157.1	157.6	157.6	158.7	160.4	160.9	162.6	164.8	167.0	169.1	171.3
47.5°	149.4	149.9	149.9	151.0	152.7	153.8	154.9	157.1	158.7	161.5	163.7
50°	140.6	141.1	141.7	142.8	145.0	146.1	147.2	148.8	151.0	152.7	154.9
52.5°	132.4	132.4	132.9	134.0	135.6	136.7	137.3	138.9	141.7	143.9	146.1
55°	123.0	123.6	124.1	125.2	126.9	128.0	128.5	130.2	131.8	133.5	135.6
57.5°	114.8	114.8	115.3	116.4	118.1	118.6	119.2	120.3	122.5	124.1	125.8
60°	104.9	105.4	106.0	107.1	108.2	109.3	109.3	110.9	112.6	114.2	115.3
62.5°	96.1	96.1	96.7	97.8	98.3	99.4	99.4	101.0	102.1	103.8	104.9
65°	85.7	86.2	86.8	87.3	88.4	88.4	89.0	90.1	91.2	92.3	93.9
67.5°	76.3	76.3	76.9	77.4	78.0	78.0	78.5	79.6	80.7	81.8	82.9
70°	65.9	66.5	66.5	66.5	67.0	67.5	68.1	68.6	69.7	70.3	71.4
72.5°	55.5	55.5	56.0	56.0	56.6	57.1	57.7	58.2	58.8	59.9	60.4
75°	45.0	45.0	45.6	45.6	46.1	46.1	46.1	47.2	47.8	48.9	49.4
77.5°	34.6	35.1	35.1	35.1	35.7	36.2	36.2	36.8	37.9	38.4	39.0
80°	25.3	25.3	25.3	25.3	25.8	26.4	26.9	26.9	28.0	29.1	29.7
82.5°	15.9	15.9	16.5	17.0	17.0	17.6	18.1	18.7	19.8	20.3	20.9
85°	8.2	8.2	8.8	9.3	9.9	10.4	10.4	11.0	12.1	13.2	13.7
87.5°	2.7	3.3	3.3	3.8	4.4	4.9	5.5	6.0	7.1	8.2	8.8
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	4.4	4.9	4.9	4.9	4.9	5.5	6.0	6.0	7.1
95°	14.8	14.3	14.3	14.3	14.3	14.3	14.3	14.8	15.4	15.4	15.9
97.5°	28.6	28.6	28.0	28.0	28.6	28.6	28.6	29.1	30.2	29.7	30.8
100°	44.5	44.5	43.9	44.5	45.0	45.6	46.7	46.7	47.8	47.8	49.4
102.5°	62.6	62.6	62.1	63.2	63.7	64.8	64.8	65.9	67.5	67.5	69.7
105°	80.7	81.3	81.3	82.4	83.5	84.6	84.6	86.2	88.4	88.4	91.2
107.5°	100.5	101.0	101.0	102.1	103.2	104.3	104.9	107.1	109.3	109.8	113.1
110°	119.7	120.3	120.8	121.9	123.0	124.7	125.8	128.0	130.7	131.8	134.5



TEST NUMBER: P395498

CATALOG NUMBER: I3-FL-20L83050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	137.8	140.0	140.6	142.2	143.9	145.5	146.6	149.4	152.7	154.3	157.6
115°	158.7	159.8	160.4	162.0	164.2	165.9	167.0	169.7	173.0	175.2	179.0
117.5°	175.7	178.5	179.0	180.7	182.9	184.5	185.6	188.9	192.8	195.5	199.4
120°	193.9	196.1	198.3	199.4	201.0	203.2	204.3	207.6	212.0	214.7	219.1
122.5°	210.3	212.5	214.7	216.4	218.6	219.7	221.3	225.2	229.6	232.9	237.2
125°	226.8	229.6	231.2	232.9	235.6	236.7	238.3	242.2	246.6	250.4	254.8
127.5°	242.7	244.4	247.1	248.2	251.0	252.1	253.7	258.1	262.5	266.4	270.7
130°	257.6	259.8	262.0	262.5	265.8	267.5	269.1	272.9	277.9	281.7	286.1
132.5°	271.8	272.9	275.7	277.3	280.1	281.7	283.4	286.7	291.6	295.5	299.9
135°	285.0	286.1	289.4	291.1	292.7	294.4	296.6	299.9	304.8	308.6	313.0
137.5°	298.2	299.3	302.6	304.2	305.3	307.0	308.6	311.9	316.9	320.7	324.6
140°	310.3	311.4	313.6	315.8	316.9	318.0	319.6	322.9	327.3	331.2	335.0
142.5°	321.3	322.4	324.6	326.8	328.4	328.4	330.1	332.8	337.7	341.6	344.9
145°	331.7	332.3	334.5	336.6	338.8	338.8	339.4	342.1	346.5	350.9	354.2
147.5°	341.6	342.1	343.8	346.0	347.6	348.2	349.3	350.4	354.8	359.2	363.0
150°	350.4	350.9	352.0	354.2	355.3	356.4	357.5	358.1	361.4	365.2	369.6
152.5°	358.1	358.6	359.7	361.4	362.5	363.6	364.7	366.3	368.0	371.8	374.5
155°	365.8	366.3	366.9	368.5	369.6	370.1	370.7	372.9	374.5	376.7	379.5
157.5°	372.3	372.3	372.9	374.0	375.1	375.1	375.6	377.8	379.5	381.7	383.3
160°	377.8	377.8	378.4	379.5	379.5	380.0	380.6	382.2	383.3	386.1	388.3
162.5°	382.8	382.2	382.8	383.3	383.3	383.3	383.9	385.0	386.6	388.8	391.0
165°	386.6	386.6	386.6	387.2	387.2	386.6	386.6	387.7	388.8	390.5	392.1
167.5°	389.9	389.9	389.4	389.9	389.4	389.4	388.8	389.4	389.9	391.6	392.7
170°	392.7	392.1	392.1	392.1	391.6	391.0	391.0	391.0	391.0	392.1	393.2
172.5°	394.9	394.3	393.8	393.8	392.7	392.1	392.1	391.6	391.6	392.1	392.7
175°	395.4	394.9	394.3	394.3	393.2	392.7	392.1	392.1	391.6	392.1	392.7
177.5°	396.5	396.0	394.9	394.9	393.8	392.7	392.7	392.1	391.6	392.1	392.1
180°	391.0	391.0	391.0	391.0	391.0	391.0	391.0	391.0	391.0	391.0	391.0



TEST NUMBER: P395498

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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	219.1	219.1	219.1	219.1	219.1	219.1	219.1	219.1	219.1	219.1
2.5°	220.2	220.2	219.7	219.1	219.1	218.6	218.0	217.5	216.9	216.4
5°	220.2	219.7	219.1	219.1	218.6	218.6	218.6	218.0	217.5	217.5
7.5°	220.2	220.2	219.7	219.1	219.1	219.1	219.1	219.1	218.6	218.6
10°	220.2	219.7	219.7	219.7	219.1	219.7	219.7	219.1	219.1	218.6
12.5°	219.7	219.7	219.7	219.7	219.7	219.7	219.7	219.7	219.7	219.1
15°	218.6	219.1	219.1	219.7	219.7	219.7	220.2	220.2	219.7	219.7
17.5°	218.0	218.6	219.1	219.7	219.7	219.7	220.2	220.2	220.2	220.2
20°	216.9	217.5	218.0	218.6	218.6	219.1	219.1	219.7	219.7	219.7
22.5°	214.7	215.3	216.4	216.9	217.5	218.0	218.6	218.6	218.6	218.6
25°	212.5	213.6	214.2	215.3	215.8	216.4	216.9	216.9	216.9	217.5
27.5°	209.8	210.9	212.5	213.1	213.6	214.2	214.7	215.3	215.3	215.3
30°	206.5	208.1	209.2	210.3	210.9	211.4	212.0	212.0	212.5	212.5
32.5°	202.6	204.3	205.4	206.5	207.0	207.6	208.7	208.7	209.2	209.2
35°	197.7	199.4	201.0	202.1	202.6	203.2	204.3	204.8	204.8	204.8
37.5°	192.8	194.4	196.1	197.7	198.3	198.8	199.9	199.9	200.5	200.5
40°	186.7	188.4	190.0	191.7	191.7	192.8	193.3	193.9	194.4	194.4
42.5°	180.7	182.3	183.4	185.1	185.6	186.2	186.7	187.8	187.8	188.4
45°	173.5	175.2	176.3	177.9	178.5	179.0	180.1	180.7	181.2	181.2
47.5°	165.9	167.0	168.0	169.7	170.8	171.3	171.9	172.4	173.0	172.4
50°	157.1	158.2	159.8	161.5	162.0	162.6	163.7	163.7	164.2	164.2
52.5°	147.7	149.4	150.5	152.1	152.7	153.2	154.3	154.3	154.9	154.9
55°	137.3	138.4	139.5	142.2	142.8	143.3	144.4	144.4	145.0	145.5
57.5°	127.4	128.0	129.6	130.7	131.8	131.8	132.4	132.9	133.5	133.5
60°	117.0	117.5	118.6	120.3	120.3	120.8	121.9	121.9	122.5	122.5
62.5°	106.0	107.1	108.2	109.8	109.3	109.8	110.9	110.9	111.5	111.5
65°	95.0	95.6	96.7	97.8	98.3	98.3	98.9	99.4	100.0	100.0
67.5°	83.5	84.6	85.1	86.8	86.2	86.8	87.3	87.3	87.9	87.9
70°	72.5	73.0	74.1	74.7	74.7	75.2	75.8	75.8	75.8	76.3
72.5°	61.5	62.1	62.6	63.2	63.2	63.7	64.3	64.3	64.8	64.8
75°	50.0	51.1	51.6	52.7	52.2	52.7	53.8	53.8	53.8	53.8
77.5°	40.1	40.6	41.7	42.3	42.3	42.3	43.4	42.8	43.4	43.4
80°	30.2	30.8	31.9	32.4	32.4	33.0	33.5	33.5	33.5	34.0
82.5°	21.4	22.5	23.6	24.2	24.2	24.7	25.3	25.3	25.8	25.8
85°	14.8	15.9	17.0	17.0	17.6	18.1	18.7	18.7	18.7	18.7
87.5°	9.9	10.4	11.0	11.5	12.1	12.1	12.6	12.6	13.2	13.2
90°	5.5	6.0	6.6	7.1	7.1	7.7	7.7	8.2	8.2	8.2
92.5°	7.7	7.7	8.2	8.8	8.8	8.8	8.8	9.3	9.3	9.3
95°	16.5	17.0	17.0	18.1	18.1	18.1	18.7	18.7	18.7	18.7
97.5°	31.9	31.9	31.9	33.0	33.0	33.0	33.5	33.5	33.5	34.0
100°	50.0	50.5	50.5	52.2	51.6	52.7	52.7	52.7	52.7	53.3
102.5°	70.3	71.4	71.9	73.6	73.6	73.6	74.7	74.1	74.7	74.7
105°	92.3	93.4	93.9	95.6	96.7	96.7	97.8	97.2	97.8	98.3
107.5°	114.2	115.9	117.0	118.6	119.7	120.3	120.3	120.8	121.4	121.9
110°	136.7	138.4	141.1	142.8	143.3	144.4	145.0	145.5	146.1	147.2





TEST NUMBER: P395498

CATALOG NUMBER: I3-FL-20L83050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	160.4	162.0	164.2	166.4	165.9	167.5	168.6	169.1	169.7	169.1
115°	181.8	184.0	186.2	188.4	188.4	189.5	191.7	192.2	192.2	193.3
117.5°	202.1	204.8	207.0	209.2	209.8	210.9	212.5	214.2	214.2	215.3
120°	221.9	225.2	227.4	229.6	230.7	231.2	232.9	235.0	235.0	235.0
122.5°	240.5	243.3	246.0	248.2	249.3	250.4	251.5	254.3	254.3	255.4
125°	258.1	261.4	264.2	266.4	267.5	268.5	270.7	272.4	272.9	272.9
127.5°	274.6	277.9	280.6	283.4	283.9	285.0	287.2	289.4	290.0	290.5
130°	290.0	293.3	296.0	298.8	299.9	300.4	303.1	304.8	305.9	306.4
132.5°	303.7	307.0	309.7	312.5	313.6	314.7	316.3	319.1	319.6	319.6
135°	316.3	319.6	322.4	325.7	326.2	327.3	329.5	331.2	332.3	332.8
137.5°	327.9	331.2	334.5	337.2	338.3	338.8	341.0	343.2	344.3	344.9
140°	338.3	341.6	344.9	347.1	347.6	349.3	350.9	353.1	354.2	354.8
142.5°	348.2	350.9	353.7	356.4	357.0	358.1	359.7	361.9	363.0	363.6
145°	357.0	359.7	361.9	364.1	364.7	365.8	367.4	369.0	370.1	370.7
147.5°	365.2	367.4	369.6	371.2	371.8	372.9	374.0	375.1	376.2	376.7
150°	372.3	373.4	375.6	376.7	377.3	378.4	379.5	380.6	381.7	382.2
152.5°	377.8	379.5	380.6	382.2	382.8	383.3	384.4	385.5	386.6	386.6
155°	382.2	383.9	385.0	386.6	387.2	387.7	388.8	389.4	390.5	390.5
157.5°	385.5	387.2	388.3	389.4	389.9	390.5	391.0	392.1	393.2	393.2
160°	389.4	389.9	390.5	391.6	391.6	392.1	392.7	393.2	394.3	394.3
162.5°	392.7	393.2	392.1	392.7	392.1	392.7	393.2	393.8	394.3	394.3
165°	393.8	394.9	394.3	394.9	394.9	394.9	394.9	395.4	395.4	395.4
167.5°	393.8	394.9	394.3	394.3	394.9	394.9	395.4	396.0	396.0	396.0
170°	393.8	394.3	393.8	393.2	393.8	393.8	393.8	394.3	394.3	394.3
172.5°	393.2	393.8	392.7	392.1	392.1	392.1	391.6	391.6	391.0	391.0
175°	392.7	392.7	391.6	391.0	391.0	391.0	389.9	389.4	388.8	388.3
177.5°	392.1	392.1	390.5	389.9	389.9	389.4	389.4	388.3	388.3	387.7
180°	391.0	391.0	391.0	391.0	391.0	391.0	391.0	391.0	391.0	391.0

(END OF REPORT)