

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: P395490

Luminaire Tested: **I3-FL-20L82765-1D-UNV-W2A-W-4 (2700K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395490  
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-20L82765-1D-UNV-W2A-W-4 (2700K)  
Description: CORELITE I3, FROSTED TOP COVER  
2000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1954.3 lumens  
Efficiency: N/A  
Efficacy: 120.6 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

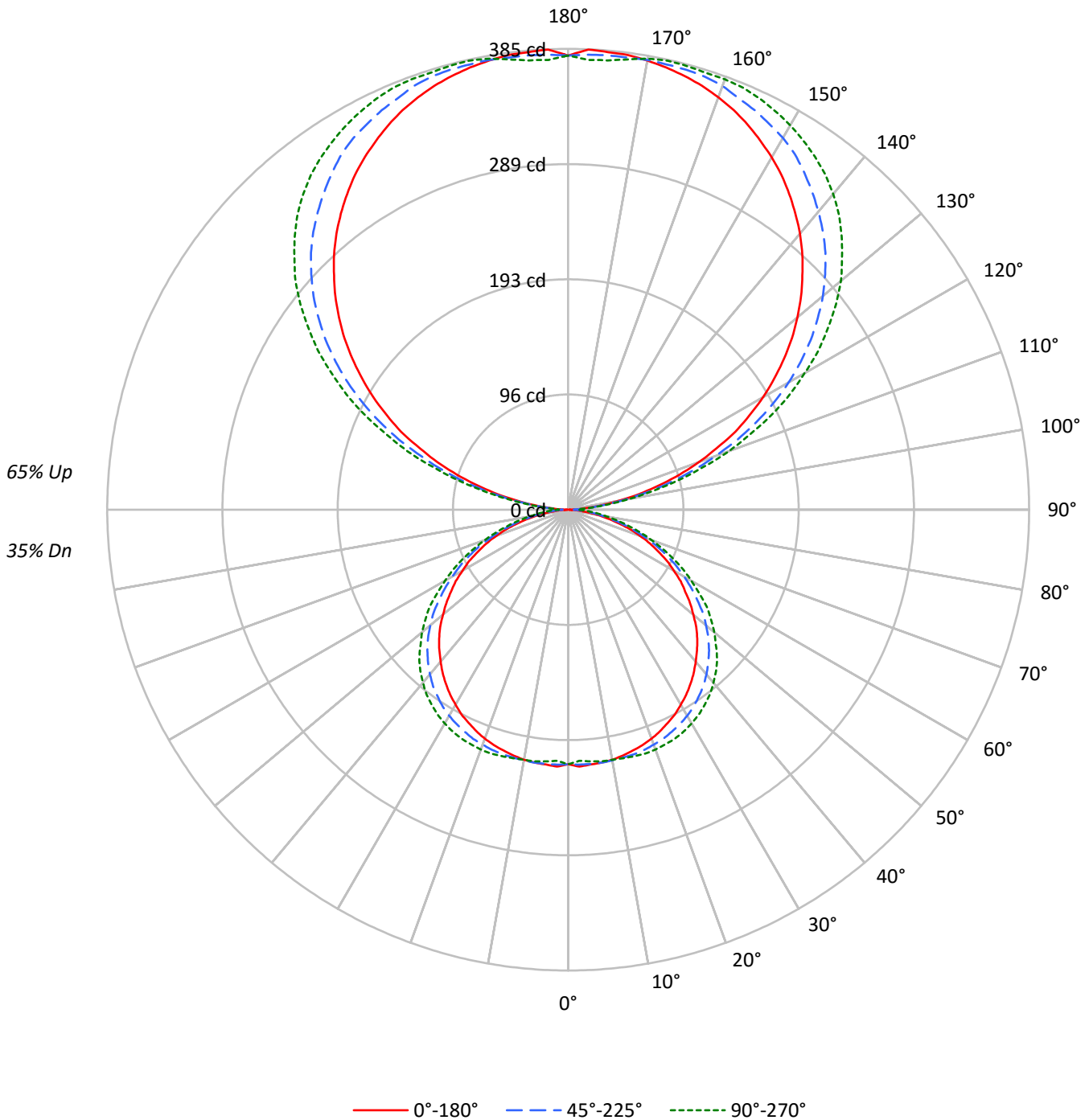
Input Watts (W): 16.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1169	1169	1169
5°	1175	1150	1131
10°	1175	1133	1118
15°	1173	1124	1114
20°	1173	1114	1112
25°	1169	1104	1108
30°	1165	1094	1097
35°	1160	1077	1082
40°	1148	1054	1058
45°	1136	1021	1025
50°	1110	976	975
55°	1079	914	917
60°	1042	842	828
65°	990	755	736
70°	921	644	622
75°	801	512	494
80°	625	364	361
85°	339	208	237



TEST NUMBER: P395490

CATALOG NUMBER: I3-FL-20L82765-1D-UNV-W2A-W-4 (2700K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	20.3	1.0
10°-20°	59.6	3.1
20°-30°	94.0	4.8
30°-40°	118.2	6.0
40°-50°	127.1	6.5
50°-60°	116.9	6.0
60°-70°	89.6	4.6
70°-80°	51.0	2.6
80°-90°	15.9	0.8
90°-100°	21.3	1.1
100°-110°	92.6	4.7
110°-120°	169.6	8.7
120°-130°	218.6	11.2
130°-140°	232.6	11.9
140°-150°	214.0	10.9
150°-160°	169.5	8.7
160°-170°	107.3	5.5
170°-180°	36.3	1.9
0°-30°	173.9	8.9
0°-40°	292.1	14.9
0°-60°	536.1	27.4
0°-90°	692.6	35.4
90°-120°	283.5	14.5
90°-150°	948.6	48.5
90°-180°	1262.0	64.6
0°-180°	1954.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	213	213	213	213	213	
5°	214	212	213	212	211	20
15°	208	207	212	213	213	59
25°	197	197	205	209	211	91
35°	178	180	190	197	199	111
45°	152	156	166	173	176	117
55°	119	124	132	139	141	107
65°	83	86	91	95	97	82
75°	44	45	48	51	52	46
85°	8	10	13	17	18	10
90°	0	2	5	7	8	1
95°	14	14	16	18	18	18
105°	78	82	88	94	95	83
115°	154	161	174	183	188	151
125°	220	230	247	260	265	197
135°	277	286	304	317	323	213
145°	322	329	344	354	360	201
155°	355	359	368	376	379	164
165°	375	375	380	383	384	106
175°	384	381	381	379	377	37
180°	379	379	379	379	379	



TEST NUMBER: P395490

CATALOG NUMBER: I3-FL-20L82765-1D-UNV-W2A-W-4 (2700K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	212.6	212.6	212.6	212.6	212.6	212.6	212.6	212.6	212.6	212.6	212.6
2.5°	214.8	214.2	213.7	212.6	212.6	212.1	212.1	212.1	212.1	212.6	213.2
5°	213.7	213.7	213.2	212.1	212.1	211.6	211.6	212.1	211.6	212.1	213.2
7.5°	213.2	213.2	212.6	211.6	211.6	211.6	211.6	211.6	211.6	212.1	213.2
10°	212.1	212.1	211.0	210.5	210.5	210.5	210.5	211.0	211.0	211.6	212.6
12.5°	210.5	210.0	209.4	208.9	208.9	208.9	209.4	210.0	210.0	211.0	212.1
15°	208.4	208.4	207.8	207.3	207.3	207.3	207.8	208.4	208.9	210.0	211.6
17.5°	206.2	206.2	205.7	205.7	205.7	205.7	206.2	206.8	207.8	208.9	210.5
20°	203.6	203.6	203.0	203.0	203.0	203.6	203.6	204.6	205.7	207.3	208.9
22.5°	200.4	200.4	200.4	199.8	200.4	200.9	201.4	202.5	203.6	205.2	207.3
25°	196.6	196.6	196.6	196.6	197.2	197.2	198.2	199.3	200.4	202.5	204.6
27.5°	192.9	192.9	192.9	192.4	193.5	194.0	194.5	196.1	197.2	199.8	202.0
30°	188.1	188.1	188.1	188.7	189.2	189.7	190.8	192.4	193.5	196.1	198.8
32.5°	183.3	183.3	183.3	183.3	184.9	185.5	186.0	187.6	189.7	192.4	195.1
35°	178.0	178.0	178.0	178.5	179.6	180.1	181.2	182.8	184.9	187.6	190.3
37.5°	172.1	172.7	172.7	173.2	174.3	175.3	176.4	178.0	180.1	182.8	185.5
40°	165.7	166.3	166.3	166.8	167.9	168.9	170.0	172.1	174.3	176.9	179.6
42.5°	159.3	159.9	159.9	160.9	162.0	163.1	164.1	166.3	168.4	171.1	173.2
45°	152.4	152.9	152.9	154.0	155.6	156.1	157.7	159.9	162.0	164.1	166.3
47.5°	145.0	145.5	145.5	146.6	148.2	149.2	150.3	152.4	154.0	156.7	158.8
50°	136.4	137.0	137.5	138.6	140.7	141.8	142.8	144.4	146.6	148.2	150.3
52.5°	128.4	128.4	129.0	130.0	131.6	132.7	133.2	134.8	137.5	139.6	141.8
55°	119.4	119.9	120.4	121.5	123.1	124.2	124.7	126.3	127.9	129.5	131.6
57.5°	111.4	111.4	111.9	113.0	114.6	115.1	115.6	116.7	118.8	120.4	122.0
60°	101.8	102.3	102.9	103.9	105.0	106.1	106.1	107.7	109.2	110.8	111.9
62.5°	93.3	93.3	93.8	94.9	95.4	96.5	96.5	98.1	99.1	100.7	101.8
65°	83.1	83.7	84.2	84.7	85.8	85.8	86.3	87.4	88.5	89.5	91.1
67.5°	74.1	74.1	74.6	75.1	75.7	75.7	76.2	77.3	78.3	79.4	80.5
70°	64.0	64.5	64.5	64.5	65.0	65.5	66.1	66.6	67.7	68.2	69.3
72.5°	53.8	53.8	54.4	54.4	54.9	55.4	56.0	56.5	57.0	58.1	58.6
75°	43.7	43.7	44.2	44.2	44.8	44.8	44.8	45.8	46.4	47.4	48.0
77.5°	33.6	34.1	34.1	34.1	34.6	35.2	35.2	35.7	36.8	37.3	37.8
80°	24.5	24.5	24.5	24.5	25.0	25.6	26.1	26.1	27.2	28.2	28.8
82.5°	15.5	15.5	16.0	16.5	16.5	17.1	17.6	18.1	19.2	19.7	20.3
85°	8.0	8.0	8.5	9.1	9.6	10.1	10.1	10.7	11.7	12.8	13.3
87.5°	2.7	3.2	3.2	3.7	4.3	4.8	5.3	5.9	6.9	8.0	8.5
90°	0.5	0.5	0.5	1.1	1.6	1.6	2.1	2.7	3.2	3.7	4.8
92.5°	4.8	4.8	4.3	4.8	4.8	4.8	4.8	5.3	5.9	5.9	6.9
95°	14.4	13.9	13.9	13.9	13.9	13.9	13.9	14.4	14.9	14.9	15.5
97.5°	27.7	27.7	27.2	27.2	27.7	27.7	27.7	28.2	29.3	28.8	29.8
100°	43.2	43.2	42.6	43.2	43.7	44.2	45.3	45.3	46.4	46.4	48.0
102.5°	60.8	60.8	60.2	61.3	61.8	62.9	62.9	64.0	65.5	65.5	67.7
105°	78.3	78.9	78.9	79.9	81.0	82.1	82.1	83.7	85.8	85.8	88.5
107.5°	97.5	98.1	98.1	99.1	100.2	101.3	101.8	103.9	106.1	106.6	109.8
110°	116.2	116.7	117.2	118.3	119.4	121.0	122.0	124.2	126.8	127.9	130.6



TEST NUMBER: P395490

CATALOG NUMBER: I3-FL-20L82765-1D-UNV-W2A-W-4 (2700K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	133.8	135.9	136.4	138.0	139.6	141.2	142.3	145.0	148.2	149.8	152.9
115°	154.0	155.1	155.6	157.2	159.3	160.9	162.0	164.7	167.9	170.0	173.7
117.5°	170.5	173.2	173.7	175.3	177.5	179.1	180.1	183.3	187.1	189.7	193.5
120°	188.1	190.3	192.4	193.5	195.1	197.2	198.2	201.4	205.7	208.4	212.6
122.5°	204.1	206.2	208.4	210.0	212.1	213.2	214.8	218.5	222.8	226.0	230.2
125°	220.1	222.8	224.4	226.0	228.6	229.7	231.3	235.0	239.3	243.0	247.3
127.5°	235.6	237.2	239.8	240.9	243.5	244.6	246.2	250.5	254.7	258.5	262.7
130°	249.9	252.1	254.2	254.7	257.9	259.5	261.1	264.9	269.7	273.4	277.7
132.5°	263.8	264.9	267.5	269.1	271.8	273.4	275.0	278.2	283.0	286.7	291.0
135°	276.6	277.7	280.9	282.5	284.0	285.6	287.8	291.0	295.8	299.5	303.8
137.5°	289.4	290.4	293.6	295.2	296.3	297.9	299.5	302.7	307.5	311.2	315.0
140°	301.1	302.2	304.3	306.4	307.5	308.6	310.2	313.4	317.6	321.4	325.1
142.5°	311.8	312.8	315.0	317.1	318.7	318.7	320.3	323.0	327.7	331.5	334.7
145°	321.9	322.4	324.6	326.7	328.8	328.8	329.3	332.0	336.3	340.5	343.7
147.5°	331.5	332.0	333.6	335.7	337.3	337.9	338.9	340.0	344.3	348.5	352.3
150°	340.0	340.5	341.6	343.7	344.8	345.9	346.9	347.5	350.7	354.4	358.7
152.5°	347.5	348.0	349.1	350.7	351.7	352.8	353.9	355.5	357.1	360.8	363.5
155°	354.9	355.5	356.0	357.6	358.7	359.2	359.7	361.9	363.5	365.6	368.3
157.5°	361.3	361.3	361.9	362.9	364.0	364.0	364.5	366.7	368.3	370.4	372.0
160°	366.7	366.7	367.2	368.3	368.3	368.8	369.3	370.9	372.0	374.6	376.8
162.5°	371.4	370.9	371.4	372.0	372.0	372.0	372.5	373.6	375.2	377.3	379.4
165°	375.2	375.2	375.2	375.7	375.7	375.2	375.2	376.2	377.3	378.9	380.5
167.5°	378.4	378.4	377.8	378.4	377.8	377.8	377.3	377.8	378.4	380.0	381.0
170°	381.0	380.5	380.5	380.5	380.0	379.4	379.4	379.4	379.4	380.5	381.6
172.5°	383.2	382.6	382.1	382.1	381.0	380.5	380.5	380.0	380.0	380.5	381.0
175°	383.7	383.2	382.6	382.6	381.6	381.0	380.5	380.5	380.0	380.5	381.0
177.5°	384.8	384.2	383.2	383.2	382.1	381.0	381.0	380.5	380.0	380.5	380.5
180°	379.4	379.4	379.4	379.4	379.4	379.4	379.4	379.4	379.4	379.4	379.4



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	212.6	212.6	212.6	212.6	212.6	212.6	212.6	212.6	212.6	212.6
2.5°	213.7	213.7	213.2	212.6	212.6	212.1	211.6	211.0	210.5	210.0
5°	213.7	213.2	212.6	212.6	212.1	212.1	212.1	211.6	211.0	211.0
7.5°	213.7	213.7	213.2	212.6	212.6	212.6	212.6	212.6	212.1	212.1
10°	213.7	213.2	213.2	213.2	212.6	213.2	213.2	212.6	212.6	212.1
12.5°	213.2	213.2	213.2	213.2	213.2	213.2	213.2	213.2	213.2	212.6
15°	212.1	212.6	212.6	213.2	213.2	213.2	213.7	213.7	213.2	213.2
17.5°	211.6	212.1	212.6	213.2	213.2	213.2	213.7	213.7	213.7	213.7
20°	210.5	211.0	211.6	212.1	212.1	212.6	212.6	213.2	213.2	213.2
22.5°	208.4	208.9	210.0	210.5	211.0	211.6	212.1	212.1	212.1	212.1
25°	206.2	207.3	207.8	208.9	209.4	210.0	210.5	210.5	210.5	211.0
27.5°	203.6	204.6	206.2	206.8	207.3	207.8	208.4	208.9	208.9	208.9
30°	200.4	202.0	203.0	204.1	204.6	205.2	205.7	205.7	206.2	206.2
32.5°	196.6	198.2	199.3	200.4	200.9	201.4	202.5	202.5	203.0	203.0
35°	191.9	193.5	195.1	196.1	196.6	197.2	198.2	198.8	198.8	198.8
37.5°	187.1	188.7	190.3	191.9	192.4	192.9	194.0	194.0	194.5	194.5
40°	181.2	182.8	184.4	186.0	186.0	187.1	187.6	188.1	188.7	188.7
42.5°	175.3	176.9	178.0	179.6	180.1	180.7	181.2	182.3	182.3	182.8
45°	168.4	170.0	171.1	172.7	173.2	173.7	174.8	175.3	175.9	175.9
47.5°	160.9	162.0	163.1	164.7	165.7	166.3	166.8	167.3	167.9	167.3
50°	152.4	153.5	155.1	156.7	157.2	157.7	158.8	158.8	159.3	159.3
52.5°	143.4	145.0	146.0	147.6	148.2	148.7	149.8	149.8	150.3	150.3
55°	133.2	134.3	135.4	138.0	138.6	139.1	140.2	140.2	140.7	141.2
57.5°	123.6	124.2	125.8	126.8	127.9	127.9	128.4	129.0	129.5	129.5
60°	113.5	114.0	115.1	116.7	116.7	117.2	118.3	118.3	118.8	118.8
62.5°	102.9	103.9	105.0	106.6	106.1	106.6	107.7	107.7	108.2	108.2
65°	92.2	92.7	93.8	94.9	95.4	95.4	95.9	96.5	97.0	97.0
67.5°	81.0	82.1	82.6	84.2	83.7	84.2	84.7	84.7	85.3	85.3
70°	70.3	70.9	71.9	72.5	72.5	73.0	73.5	73.5	73.5	74.1
72.5°	59.7	60.2	60.8	61.3	61.3	61.8	62.4	62.4	62.9	62.9
75°	48.5	49.6	50.1	51.2	50.6	51.2	52.2	52.2	52.2	52.2
77.5°	38.9	39.4	40.5	41.0	41.0	41.0	42.1	41.6	42.1	42.1
80°	29.3	29.8	30.9	31.4	31.4	32.0	32.5	32.5	32.5	33.0
82.5°	20.8	21.8	22.9	23.4	23.4	24.0	24.5	24.5	25.0	25.0
85°	14.4	15.5	16.5	16.5	17.1	17.6	18.1	18.1	18.1	18.1
87.5°	9.6	10.1	10.7	11.2	11.7	11.7	12.3	12.3	12.8	12.8
90°	5.3	5.9	6.4	6.9	6.9	7.5	7.5	8.0	8.0	8.0
92.5°	7.5	7.5	8.0	8.5	8.5	8.5	8.5	9.1	9.1	9.1
95°	16.0	16.5	16.5	17.6	17.6	17.6	18.1	18.1	18.1	18.1
97.5°	30.9	30.9	30.9	32.0	32.0	32.0	32.5	32.5	32.5	33.0
100°	48.5	49.0	49.0	50.6	50.1	51.2	51.2	51.2	51.2	51.7
102.5°	68.2	69.3	69.8	71.4	71.4	71.4	72.5	71.9	72.5	72.5
105°	89.5	90.6	91.1	92.7	93.8	93.8	94.9	94.3	94.9	95.4
107.5°	110.8	112.4	113.5	115.1	116.2	116.7	116.7	117.2	117.8	118.3
110°	132.7	134.3	137.0	138.6	139.1	140.2	140.7	141.2	141.8	142.8





TEST NUMBER: P395490

CATALOG NUMBER: I3-FL-20L82765-1D-UNV-W2A-W-4 (2700K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	155.6	157.2	159.3	161.5	160.9	162.5	163.6	164.1	164.7	164.1
115°	176.4	178.5	180.7	182.8	182.8	183.9	186.0	186.5	186.5	187.6
117.5°	196.1	198.8	200.9	203.0	203.6	204.6	206.2	207.8	207.8	208.9
120°	215.3	218.5	220.6	222.8	223.8	224.4	226.0	228.1	228.1	228.1
122.5°	233.4	236.1	238.8	240.9	241.9	243.0	244.1	246.7	246.7	247.8
125°	250.5	253.7	256.3	258.5	259.5	260.6	262.7	264.3	264.9	264.9
127.5°	266.5	269.7	272.3	275.0	275.5	276.6	278.7	280.9	281.4	281.9
130°	281.4	284.6	287.2	289.9	291.0	291.5	294.2	295.8	296.8	297.4
132.5°	294.7	297.9	300.6	303.2	304.3	305.4	307.0	309.6	310.2	310.2
135°	307.0	310.2	312.8	316.0	316.6	317.6	319.8	321.4	322.4	323.0
137.5°	318.2	321.4	324.6	327.2	328.3	328.8	330.9	333.1	334.1	334.7
140°	328.3	331.5	334.7	336.8	337.3	338.9	340.5	342.7	343.7	344.3
142.5°	337.9	340.5	343.2	345.9	346.4	347.5	349.1	351.2	352.3	352.8
145°	346.4	349.1	351.2	353.3	353.9	354.9	356.5	358.1	359.2	359.7
147.5°	354.4	356.5	358.7	360.3	360.8	361.9	362.9	364.0	365.1	365.6
150°	361.3	362.4	364.5	365.6	366.1	367.2	368.3	369.3	370.4	370.9
152.5°	366.7	368.3	369.3	370.9	371.4	372.0	373.0	374.1	375.2	375.2
155°	370.9	372.5	373.6	375.2	375.7	376.2	377.3	377.8	378.9	378.9
157.5°	374.1	375.7	376.8	377.8	378.4	378.9	379.4	380.5	381.6	381.6
160°	377.8	378.4	378.9	380.0	380.0	380.5	381.0	381.6	382.6	382.6
162.5°	381.0	381.6	380.5	381.0	380.5	381.0	381.6	382.1	382.6	382.6
165°	382.1	383.2	382.6	383.2	383.2	383.2	383.2	383.7	383.7	383.7
167.5°	382.1	383.2	382.6	382.6	383.2	383.2	383.7	384.2	384.2	384.2
170°	382.1	382.6	382.1	381.6	382.1	382.1	382.1	382.6	382.6	382.6
172.5°	381.6	382.1	381.0	380.5	380.5	380.5	380.0	380.0	379.4	379.4
175°	381.0	381.0	380.0	379.4	379.4	379.4	378.4	377.8	377.3	376.8
177.5°	380.5	380.5	378.9	378.4	378.4	377.8	377.8	376.8	376.8	376.2
180°	379.4	379.4	379.4	379.4	379.4	379.4	379.4	379.4	379.4	379.4

(END OF REPORT)