

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: P395492

Luminaire Tested: **I3-FL-20L82765-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395492
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 (3500K)
Description: CORELITE I3, FROSTED TOP COVER
2000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2079.9 lumens
Efficiency: N/A
Efficacy: 127.6 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

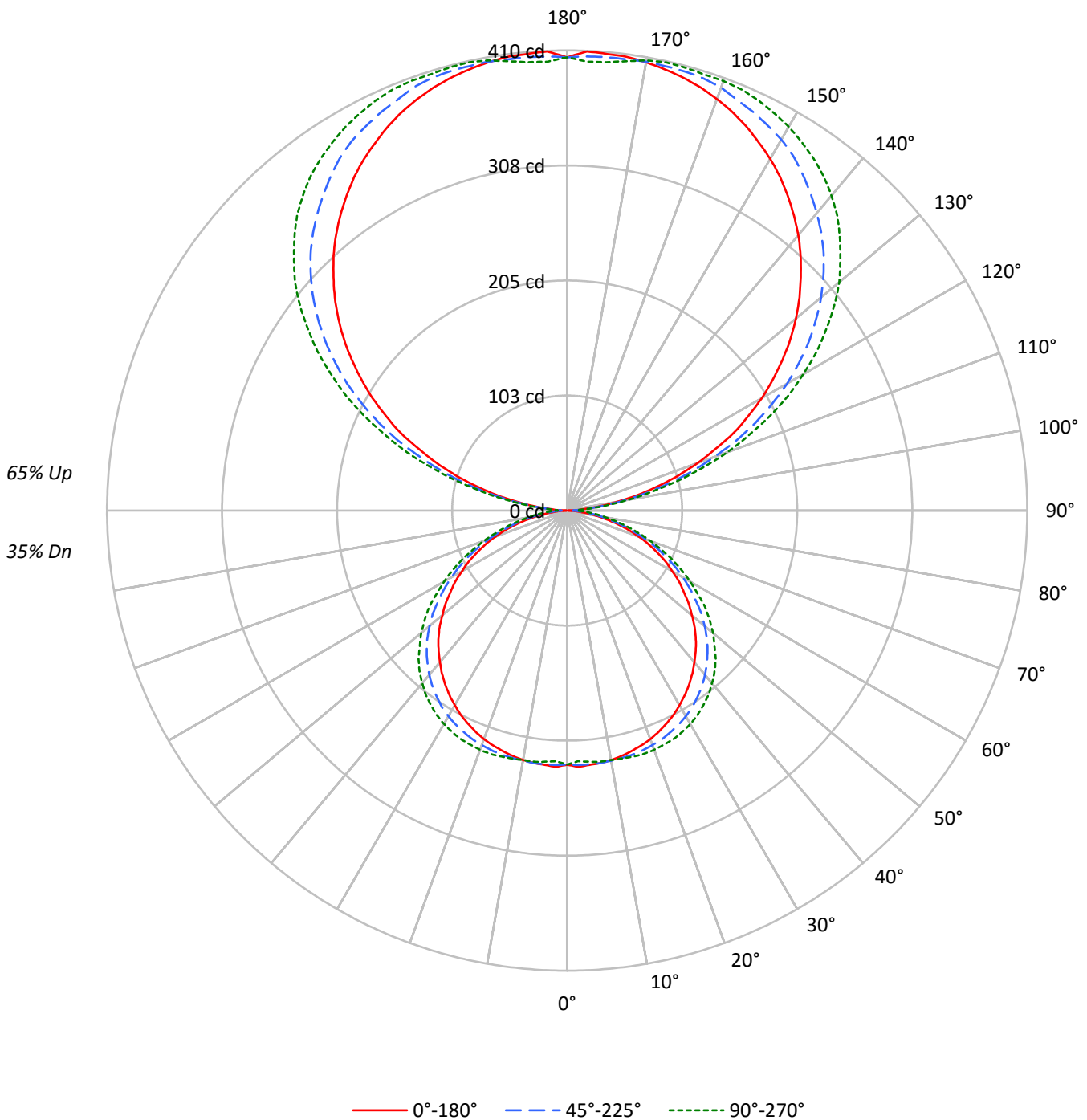
Input Watts (W): 16.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P395492

CATALOG NUMBER: I3-FL-20L82765-1D-UNV-W2A-W-4 (3500K)

Luminous Intensity Polar Plot





TEST NUMBER: P395492

CATALOG NUMBER: I3-FL-20L82765-1D-UNV-W2A-W-4 (3500K)

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°	1244	1244	1244
5°	1250	1223	1204
10°	1250	1206	1190
15°	1248	1196	1185
20°	1248	1186	1184
25°	1245	1175	1179
30°	1240	1164	1168
35°	1234	1146	1151
40°	1222	1121	1126
45°	1209	1087	1091
50°	1182	1038	1038
55°	1147	973	976
60°	1109	897	882
65°	1055	804	783
70°	980	685	661
75°	852	544	526
80°	666	386	385
85°	361	222	253



TEST NUMBER: P395492

CATALOG NUMBER: I3-FL-20L82765-1D-UNV-W2A-W-4 (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.6	1.0
10°-20°	63.5	3.1
20°-30°	100.1	4.8
30°-40°	125.8	6.0
40°-50°	135.2	6.5
50°-60°	124.4	6.0
60°-70°	95.3	4.6
70°-80°	54.3	2.6
80°-90°	16.9	0.8
90°-100°	22.7	1.1
100°-110°	98.6	4.7
110°-120°	180.5	8.7
120°-130°	232.6	11.2
130°-140°	247.5	11.9
140°-150°	227.7	10.9
150°-160°	180.4	8.7
160°-170°	114.2	5.5
170°-180°	38.7	1.9
0°-30°	185.1	8.9
0°-40°	310.9	14.9
0°-60°	570.5	27.4
0°-90°	737.1	35.4
90°-120°	301.7	14.5
90°-150°	1009.5	48.5
90°-180°	1343.0	64.6
0°-180°	2079.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	226	226	226	226	226	
5°	227	225	227	226	225	22
15°	222	221	225	227	227	63
25°	209	210	218	223	225	97
35°	189	192	202	209	212	118
45°	162	166	177	184	187	125
55°	127	132	140	148	150	114
65°	88	91	97	102	103	88
75°	46	48	51	54	56	49
85°	8	11	14	18	19	11
90°	1	2	5	7	8	1
95°	15	15	16	19	19	19
105°	83	87	94	100	102	89
115°	164	171	185	194	200	161
125°	234	244	263	276	282	209
135°	294	304	323	337	344	227
145°	343	350	366	377	383	214
155°	378	382	392	400	403	174
165°	399	399	405	408	408	113
175°	408	406	406	404	401	39
180°	404	404	404	404	404	



TEST NUMBER: P395492

CATALOG NUMBER: I3-FL-20L82765-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	226.3	226.3	226.3	226.3	226.3	226.3	226.3	226.3	226.3	226.3	226.3
2.5°	228.6	228.0	227.4	226.3	226.3	225.7	225.7	225.7	225.7	226.3	226.9
5°	227.4	227.4	226.9	225.7	225.7	225.2	225.2	225.7	225.2	225.7	226.9
7.5°	226.9	226.9	226.3	225.2	225.2	225.2	225.2	225.2	225.2	225.7	226.9
10°	225.7	225.7	224.6	224.0	224.0	224.0	224.0	224.6	224.6	225.2	226.3
12.5°	224.0	223.5	222.9	222.3	222.3	222.3	222.9	223.5	223.5	224.6	225.7
15°	221.8	221.8	221.2	220.6	220.6	220.6	221.2	221.8	222.3	223.5	225.2
17.5°	219.5	219.5	218.9	218.9	218.9	218.9	219.5	220.1	221.2	222.3	224.0
20°	216.7	216.7	216.1	216.1	216.1	216.7	216.7	217.8	218.9	220.6	222.3
22.5°	213.3	213.3	213.3	212.7	213.3	213.8	214.4	215.5	216.7	218.4	220.6
25°	209.3	209.3	209.3	209.3	209.9	209.9	211.0	212.1	213.3	215.5	217.8
27.5°	205.3	205.3	205.3	204.8	205.9	206.5	207.0	208.7	209.9	212.7	215.0
30°	200.2	200.2	200.2	200.8	201.3	201.9	203.0	204.8	205.9	208.7	211.6
32.5°	195.1	195.1	195.1	195.1	196.8	197.4	197.9	199.6	201.9	204.8	207.6
35°	189.4	189.4	189.4	190.0	191.1	191.7	192.8	194.5	196.8	199.6	202.5
37.5°	183.2	183.8	183.8	184.3	185.5	186.6	187.7	189.4	191.7	194.5	197.4
40°	176.4	177.0	177.0	177.5	178.7	179.8	180.9	183.2	185.5	188.3	191.1
42.5°	169.6	170.2	170.2	171.3	172.4	173.6	174.7	177.0	179.2	182.1	184.3
45°	162.2	162.8	162.8	163.9	165.6	166.2	167.9	170.2	172.4	174.7	177.0
47.5°	154.3	154.8	154.8	156.0	157.7	158.8	159.9	162.2	163.9	166.7	169.0
50°	145.2	145.8	146.3	147.5	149.7	150.9	152.0	153.7	156.0	157.7	159.9
52.5°	136.7	136.7	137.3	138.4	140.1	141.2	141.8	143.5	146.3	148.6	150.9
55°	127.0	127.6	128.2	129.3	131.0	132.2	132.7	134.4	136.1	137.8	140.1
57.5°	118.5	118.5	119.1	120.2	121.9	122.5	123.1	124.2	126.5	128.2	129.9
60°	108.3	108.9	109.5	110.6	111.7	112.9	112.9	114.6	116.3	118.0	119.1
62.5°	99.3	99.3	99.8	101.0	101.5	102.7	102.7	104.4	105.5	107.2	108.3
65°	88.5	89.0	89.6	90.2	91.3	91.3	91.9	93.0	94.2	95.3	97.0
67.5°	78.8	78.8	79.4	80.0	80.5	80.5	81.1	82.2	83.4	84.5	85.6
70°	68.1	68.6	68.6	68.6	69.2	69.8	70.3	70.9	72.0	72.6	73.7
72.5°	57.3	57.3	57.9	57.9	58.4	59.0	59.6	60.1	60.7	61.8	62.4
75°	46.5	46.5	47.1	47.1	47.6	47.6	47.6	48.8	49.3	50.5	51.0
77.5°	35.7	36.3	36.3	36.3	36.9	37.4	37.4	38.0	39.1	39.7	40.3
80°	26.1	26.1	26.1	26.1	26.7	27.2	27.8	27.8	28.9	30.1	30.6
82.5°	16.4	16.4	17.0	17.6	17.6	18.1	18.7	19.3	20.4	21.0	21.6
85°	8.5	8.5	9.1	9.6	10.2	10.8	10.8	11.3	12.5	13.6	14.2
87.5°	2.8	3.4	3.4	4.0	4.5	5.1	5.7	6.2	7.4	8.5	9.1
90°	0.6	0.6	0.6	1.1	1.7	1.7	2.3	2.8	3.4	4.0	5.1
92.5°	5.1	5.1	4.5	5.1	5.1	5.1	5.1	5.7	6.2	6.2	7.4
95°	15.3	14.7	14.7	14.7	14.7	14.7	14.7	15.3	15.9	15.9	16.4
97.5°	29.5	29.5	28.9	28.9	29.5	29.5	29.5	30.1	31.2	30.6	31.8
100°	45.9	45.9	45.4	45.9	46.5	47.1	48.2	48.2	49.3	49.3	51.0
102.5°	64.7	64.7	64.1	65.2	65.8	66.9	66.9	68.1	69.8	69.8	72.0
105°	83.4	83.9	83.9	85.1	86.2	87.3	87.3	89.0	91.3	91.3	94.2
107.5°	103.8	104.4	104.4	105.5	106.6	107.8	108.3	110.6	112.9	113.4	116.8
110°	123.6	124.2	124.8	125.9	127.0	128.7	129.9	132.2	135.0	136.1	139.0



TEST NUMBER: P395492

CATALOG NUMBER: I3-FL-20L82765-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	142.4	144.6	145.2	146.9	148.6	150.3	151.4	154.3	157.7	159.4	162.8
115°	163.9	165.0	165.6	167.3	169.6	171.3	172.4	175.3	178.7	180.9	184.9
117.5°	181.5	184.3	184.9	186.6	188.9	190.6	191.7	195.1	199.1	201.9	205.9
120°	200.2	202.5	204.8	205.9	207.6	209.9	211.0	214.4	218.9	221.8	226.3
122.5°	217.2	219.5	221.8	223.5	225.7	226.9	228.6	232.5	237.1	240.5	245.0
125°	234.2	237.1	238.8	240.5	243.3	244.5	246.2	250.1	254.7	258.6	263.2
127.5°	250.7	252.4	255.2	256.4	259.2	260.3	262.0	266.6	271.1	275.1	279.6
130°	266.0	268.3	270.5	271.1	274.5	276.2	277.9	281.9	287.0	291.0	295.5
132.5°	280.8	281.9	284.7	286.4	289.3	291.0	292.7	296.1	301.2	305.1	309.7
135°	294.4	295.5	298.9	300.6	302.3	304.0	306.3	309.7	314.8	318.8	323.3
137.5°	308.0	309.1	312.5	314.2	315.3	317.1	318.8	322.2	327.3	331.2	335.2
140°	320.5	321.6	323.9	326.1	327.3	328.4	330.1	333.5	338.0	342.0	346.0
142.5°	331.8	332.9	335.2	337.5	339.2	339.2	340.9	343.7	348.8	352.8	356.2
145°	342.6	343.1	345.4	347.7	349.9	349.9	350.5	353.4	357.9	362.4	365.8
147.5°	352.8	353.4	355.1	357.3	359.0	359.6	360.7	361.9	366.4	370.9	374.9
150°	361.9	362.4	363.6	365.8	367.0	368.1	369.2	369.8	373.2	377.2	381.7
152.5°	369.8	370.4	371.5	373.2	374.3	375.5	376.6	378.3	380.0	384.0	386.8
155°	377.7	378.3	378.9	380.6	381.7	382.3	382.8	385.1	386.8	389.1	391.9
157.5°	384.5	384.5	385.1	386.2	387.4	387.4	387.9	390.2	391.9	394.2	395.9
160°	390.2	390.2	390.8	391.9	391.9	392.5	393.1	394.8	395.9	398.7	401.0
162.5°	395.3	394.8	395.3	395.9	395.9	395.9	396.5	397.6	399.3	401.6	403.8
165°	399.3	399.3	399.3	399.9	399.9	399.3	399.3	400.4	401.6	403.3	405.0
167.5°	402.7	402.7	402.1	402.7	402.1	402.1	401.6	402.1	402.7	404.4	405.5
170°	405.5	405.0	405.0	405.0	404.4	403.8	403.8	403.8	403.8	405.0	406.1
172.5°	407.8	407.2	406.7	406.7	405.5	405.0	405.0	404.4	404.4	405.0	405.5
175°	408.4	407.8	407.2	407.2	406.1	405.5	405.0	405.0	404.4	405.0	405.5
177.5°	409.5	408.9	407.8	407.8	406.7	405.5	405.5	405.0	404.4	405.0	405.0
180°	403.8	403.8	403.8	403.8	403.8	403.8	403.8	403.8	403.8	403.8	403.8



TEST NUMBER: P395492

CATALOG NUMBER: I3-FL-20L82765-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	226.3	226.3	226.3	226.3	226.3	226.3	226.3	226.3	226.3	226.3
2.5°	227.4	227.4	226.9	226.3	226.3	225.7	225.2	224.6	224.0	223.5
5°	227.4	226.9	226.3	226.3	225.7	225.7	225.7	225.2	224.6	224.6
7.5°	227.4	227.4	226.9	226.3	226.3	226.3	226.3	226.3	225.7	225.7
10°	227.4	226.9	226.9	226.9	226.3	226.9	226.9	226.3	226.3	225.7
12.5°	226.9	226.9	226.9	226.9	226.9	226.9	226.9	226.9	226.9	226.3
15°	225.7	226.3	226.3	226.9	226.9	226.9	227.4	227.4	226.9	226.9
17.5°	225.2	225.7	226.3	226.9	226.9	226.9	227.4	227.4	227.4	227.4
20°	224.0	224.6	225.2	225.7	225.7	226.3	226.3	226.9	226.9	226.9
22.5°	221.8	222.3	223.5	224.0	224.6	225.2	225.7	225.7	225.7	225.7
25°	219.5	220.6	221.2	222.3	222.9	223.5	224.0	224.0	224.0	224.6
27.5°	216.7	217.8	219.5	220.1	220.6	221.2	221.8	222.3	222.3	222.3
30°	213.3	215.0	216.1	217.2	217.8	218.4	218.9	218.9	219.5	219.5
32.5°	209.3	211.0	212.1	213.3	213.8	214.4	215.5	215.5	216.1	216.1
35°	204.2	205.9	207.6	208.7	209.3	209.9	211.0	211.6	211.6	211.6
37.5°	199.1	200.8	202.5	204.2	204.8	205.3	206.5	206.5	207.0	207.0
40°	192.8	194.5	196.2	197.9	197.9	199.1	199.6	200.2	200.8	200.8
42.5°	186.6	188.3	189.4	191.1	191.7	192.3	192.8	194.0	194.0	194.5
45°	179.2	180.9	182.1	183.8	184.3	184.9	186.0	186.6	187.2	187.2
47.5°	171.3	172.4	173.6	175.3	176.4	177.0	177.5	178.1	178.7	178.1
50°	162.2	163.3	165.0	166.7	167.3	167.9	169.0	169.0	169.6	169.6
52.5°	152.6	154.3	155.4	157.1	157.7	158.2	159.4	159.4	159.9	159.9
55°	141.8	142.9	144.1	146.9	147.5	148.0	149.2	149.2	149.7	150.3
57.5°	131.6	132.2	133.9	135.0	136.1	136.1	136.7	137.3	137.8	137.8
60°	120.8	121.4	122.5	124.2	124.2	124.8	125.9	125.9	126.5	126.5
62.5°	109.5	110.6	111.7	113.4	112.9	113.4	114.6	114.6	115.1	115.1
65°	98.1	98.7	99.8	101.0	101.5	101.5	102.1	102.7	103.2	103.2
67.5°	86.2	87.3	87.9	89.6	89.0	89.6	90.2	90.2	90.7	90.7
70°	74.9	75.4	76.6	77.1	77.1	77.7	78.3	78.3	78.3	78.8
72.5°	63.5	64.1	64.7	65.2	65.2	65.8	66.4	66.4	66.9	66.9
75°	51.6	52.7	53.3	54.4	53.9	54.4	55.6	55.6	55.6	55.6
77.5°	41.4	42.0	43.1	43.7	43.7	43.7	44.8	44.2	44.8	44.8
80°	31.2	31.8	32.9	33.5	33.5	34.0	34.6	34.6	34.6	35.2
82.5°	22.1	23.3	24.4	25.0	25.0	25.5	26.1	26.1	26.7	26.7
85°	15.3	16.4	17.6	17.6	18.1	18.7	19.3	19.3	19.3	19.3
87.5°	10.2	10.8	11.3	11.9	12.5	12.5	13.0	13.0	13.6	13.6
90°	5.7	6.2	6.8	7.4	7.4	7.9	7.9	8.5	8.5	8.5
92.5°	7.9	7.9	8.5	9.1	9.1	9.1	9.1	9.6	9.6	9.6
95°	17.0	17.6	17.6	18.7	18.7	18.7	19.3	19.3	19.3	19.3
97.5°	32.9	32.9	32.9	34.0	34.0	34.0	34.6	34.6	34.6	35.2
100°	51.6	52.2	52.2	53.9	53.3	54.4	54.4	54.4	54.4	55.0
102.5°	72.6	73.7	74.3	76.0	76.0	76.0	77.1	76.6	77.1	77.1
105°	95.3	96.4	97.0	98.7	99.8	99.8	101.0	100.4	101.0	101.5
107.5°	118.0	119.7	120.8	122.5	123.6	124.2	124.2	124.8	125.3	125.9
110°	141.2	142.9	145.8	147.5	148.0	149.2	149.7	150.3	150.9	152.0



TEST NUMBER: P395492

CATALOG NUMBER: I3-FL-20L82765-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	165.6	167.3	169.6	171.9	171.3	173.0	174.1	174.7	175.3	174.7
115°	187.7	190.0	192.3	194.5	194.5	195.7	197.9	198.5	198.5	199.6
117.5°	208.7	211.6	213.8	216.1	216.7	217.8	219.5	221.2	221.2	222.3
120°	229.1	232.5	234.8	237.1	238.2	238.8	240.5	242.8	242.8	242.8
122.5°	248.4	251.3	254.1	256.4	257.5	258.6	259.8	262.6	262.6	263.7
125°	266.6	270.0	272.8	275.1	276.2	277.3	279.6	281.3	281.9	281.9
127.5°	283.6	287.0	289.8	292.7	293.2	294.4	296.6	298.9	299.5	300.0
130°	299.5	302.9	305.7	308.5	309.7	310.2	313.1	314.8	315.9	316.5
132.5°	313.6	317.1	319.9	322.7	323.9	325.0	326.7	329.5	330.1	330.1
135°	326.7	330.1	332.9	336.3	336.9	338.0	340.3	342.0	343.1	343.7
137.5°	338.6	342.0	345.4	348.2	349.4	349.9	352.2	354.5	355.6	356.2
140°	349.4	352.8	356.2	358.5	359.0	360.7	362.4	364.7	365.8	366.4
142.5°	359.6	362.4	365.3	368.1	368.7	369.8	371.5	373.8	374.9	375.5
145°	368.7	371.5	373.8	376.0	376.6	377.7	379.4	381.1	382.3	382.8
147.5°	377.2	379.4	381.7	383.4	384.0	385.1	386.2	387.4	388.5	389.1
150°	384.5	385.7	387.9	389.1	389.6	390.8	391.9	393.1	394.2	394.8
152.5°	390.2	391.9	393.1	394.8	395.3	395.9	397.0	398.2	399.3	399.3
155°	394.8	396.5	397.6	399.3	399.9	400.4	401.6	402.1	403.3	403.3
157.5°	398.2	399.9	401.0	402.1	402.7	403.3	403.8	405.0	406.1	406.1
160°	402.1	402.7	403.3	404.4	404.4	405.0	405.5	406.1	407.2	407.2
162.5°	405.5	406.1	405.0	405.5	405.0	405.5	406.1	406.7	407.2	407.2
165°	406.7	407.8	407.2	407.8	407.8	407.8	407.8	408.4	408.4	408.4
167.5°	406.7	407.8	407.2	407.2	407.8	407.8	408.4	408.9	408.9	408.9
170°	406.7	407.2	406.7	406.1	406.7	406.7	406.7	407.2	407.2	407.2
172.5°	406.1	406.7	405.5	405.0	405.0	405.0	404.4	404.4	403.8	403.8
175°	405.5	405.5	404.4	403.8	403.8	403.8	402.7	402.1	401.6	401.0
177.5°	405.0	405.0	403.3	402.7	402.7	402.1	402.1	401.0	401.0	400.4
180°	403.8	403.8	403.8	403.8	403.8	403.8	403.8	403.8	403.8	403.8

(END OF REPORT)