

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: P395497

Luminaire Tested: **I3-FL-20L82765-1D-UNV-W2A-W-4 (6500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395497
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 (6500K)
Description: CORELITE I3, FROSTED TOP COVER
2000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2224.6 lumens
Efficiency: N/A
Efficacy: 131.6 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

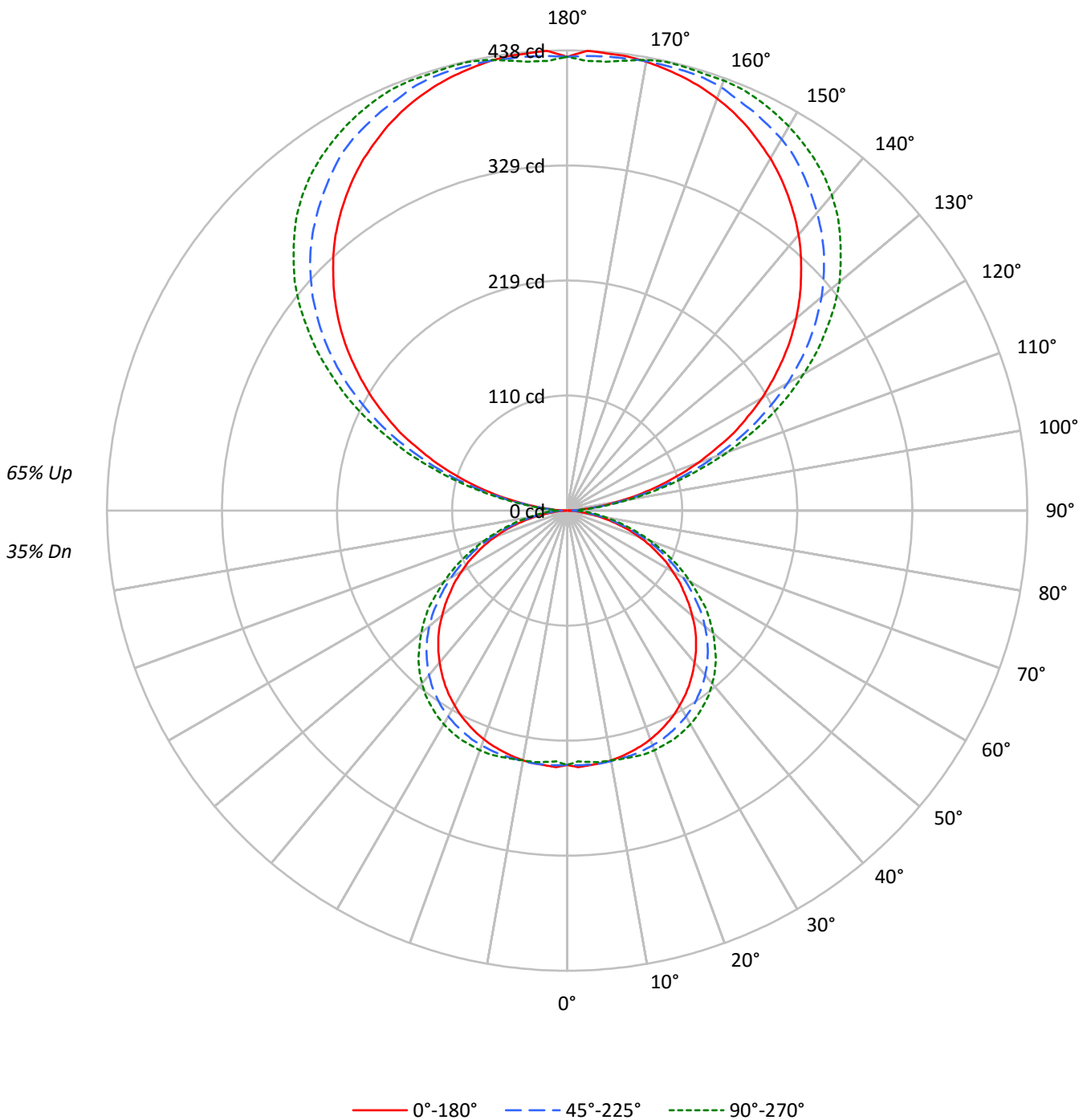
Input Watts (W): 16.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P395497

CATALOG NUMBER: I3-FL-20L82765-1D-UNV-W2A-W-4 (6500K)

Luminous Intensity Polar Plot





TEST NUMBER: P395497

CATALOG NUMBER: I3-FL-20L82765-1D-UNV-W2A-W-4 (6500K)

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°	1331	1331	1331
5°	1337	1309	1288
10°	1337	1291	1273
15°	1335	1279	1268
20°	1335	1268	1266
25°	1331	1257	1261
30°	1326	1245	1250
35°	1320	1225	1231
40°	1307	1199	1204
45°	1294	1162	1167
50°	1264	1111	1110
55°	1228	1041	1044
60°	1187	959	943
65°	1127	859	837
70°	1047	733	707
75°	911	582	563
80°	711	414	412
85°	386	237	270



TEST NUMBER: P395497

CATALOG NUMBER: I3-FL-20L82765-1D-UNV-W2A-W-4 (6500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.1	1.0
10°-20°	67.9	3.1
20°-30°	107.0	4.8
30°-40°	134.5	6.0
40°-50°	144.7	6.5
50°-60°	133.1	6.0
60°-70°	101.9	4.6
70°-80°	58.1	2.6
80°-90°	18.1	0.8
90°-100°	24.2	1.1
100°-110°	105.4	4.7
110°-120°	193.0	8.7
120°-130°	248.8	11.2
130°-140°	264.7	11.9
140°-150°	243.6	10.9
150°-160°	193.0	8.7
160°-170°	122.2	5.5
170°-180°	41.4	1.9
0°-30°	198.0	8.9
0°-40°	332.5	14.9
0°-60°	610.2	27.4
0°-90°	788.4	35.4
90°-120°	322.7	14.5
90°-150°	1079.8	48.5
90°-180°	1436.0	64.5
0°-180°	2224.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	242	242	242	242	242	
5°	243	241	243	241	240	23
15°	237	236	241	243	243	67
25°	224	224	233	238	240	103
35°	203	205	217	224	226	127
45°	174	178	189	197	200	134
55°	136	141	150	158	161	122
65°	95	98	104	109	110	94
75°	50	51	55	58	60	53
85°	9	12	15	19	21	11
90°	1	2	6	8	9	1
95°	16	16	18	20	21	20
105°	89	93	101	107	109	95
115°	175	183	198	208	214	172
125°	250	262	282	295	302	224
135°	315	325	346	360	368	243
145°	366	374	391	403	410	229
155°	404	409	419	428	431	186
165°	427	427	433	436	437	121
175°	437	434	434	432	429	42
180°	432	432	432	432	432	



TEST NUMBER: P395497

CATALOG NUMBER: I3-FL-20L82765-1D-UNV-W2A-W-4 (6500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	242.1	242.1	242.1	242.1	242.1	242.1	242.1	242.1	242.1	242.1	242.1
2.5°	244.5	243.9	243.3	242.1	242.1	241.4	241.4	241.4	241.4	242.1	242.7
5°	243.3	243.3	242.7	241.4	241.4	240.8	240.8	241.4	240.8	241.4	242.7
7.5°	242.7	242.7	242.1	240.8	240.8	240.8	240.8	240.8	240.8	241.4	242.7
10°	241.4	241.4	240.2	239.6	239.6	239.6	239.6	240.2	240.2	240.8	242.1
12.5°	239.6	239.0	238.4	237.8	237.8	237.8	238.4	239.0	239.0	240.2	241.4
15°	237.2	237.2	236.6	236.0	236.0	236.0	236.6	237.2	237.8	239.0	240.8
17.5°	234.8	234.8	234.2	234.2	234.2	234.2	234.8	235.4	236.6	237.8	239.6
20°	231.7	231.7	231.1	231.1	231.1	231.7	231.7	233.0	234.2	236.0	237.8
22.5°	228.1	228.1	228.1	227.5	228.1	228.7	229.3	230.5	231.7	233.6	236.0
25°	223.9	223.9	223.9	223.9	224.5	224.5	225.7	226.9	228.1	230.5	233.0
27.5°	219.6	219.6	219.6	219.0	220.2	220.8	221.4	223.2	224.5	227.5	229.9
30°	214.1	214.1	214.1	214.8	215.4	216.0	217.2	219.0	220.2	223.2	226.3
32.5°	208.7	208.7	208.7	208.7	210.5	211.1	211.7	213.5	216.0	219.0	222.0
35°	202.6	202.6	202.6	203.2	204.4	205.0	206.3	208.1	210.5	213.5	216.6
37.5°	195.9	196.6	196.6	197.2	198.4	199.6	200.8	202.6	205.0	208.1	211.1
40°	188.7	189.3	189.3	189.9	191.1	192.3	193.5	195.9	198.4	201.4	204.4
42.5°	181.4	182.0	182.0	183.2	184.4	185.6	186.8	189.3	191.7	194.7	197.2
45°	173.5	174.1	174.1	175.3	177.1	177.7	179.6	182.0	184.4	186.8	189.3
47.5°	165.0	165.6	165.6	166.8	168.6	169.9	171.1	173.5	175.3	178.4	180.8
50°	155.3	155.9	156.5	157.7	160.2	161.4	162.6	164.4	166.8	168.6	171.1
52.5°	146.2	146.2	146.8	148.0	149.8	151.1	151.7	153.5	156.5	158.9	161.4
55°	135.9	136.5	137.1	138.3	140.1	141.3	142.0	143.8	145.6	147.4	149.8
57.5°	126.8	126.8	127.4	128.6	130.4	131.0	131.6	132.9	135.3	137.1	138.9
60°	115.9	116.5	117.1	118.3	119.5	120.7	120.7	122.5	124.4	126.2	127.4
62.5°	106.2	106.2	106.8	108.0	108.6	109.8	109.8	111.6	112.8	114.7	115.9
65°	94.6	95.2	95.9	96.5	97.7	97.7	98.3	99.5	100.7	101.9	103.7
67.5°	84.3	84.3	84.9	85.5	86.1	86.1	86.8	88.0	89.2	90.4	91.6
70°	72.8	73.4	73.4	73.4	74.0	74.6	75.2	75.8	77.0	77.7	78.9
72.5°	61.3	61.3	61.9	61.9	62.5	63.1	63.7	64.3	64.9	66.1	66.7
75°	49.7	49.7	50.4	50.4	51.0	51.0	51.0	52.2	52.8	54.0	54.6
77.5°	38.2	38.8	38.8	38.8	39.4	40.0	40.0	40.6	41.9	42.5	43.1
80°	27.9	27.9	27.9	27.9	28.5	29.1	29.7	29.7	30.9	32.2	32.8
82.5°	17.6	17.6	18.2	18.8	18.8	19.4	20.0	20.6	21.8	22.4	23.1
85°	9.1	9.1	9.7	10.3	10.9	11.5	11.5	12.1	13.3	14.6	15.2
87.5°	3.0	3.6	3.6	4.2	4.9	5.5	6.1	6.7	7.9	9.1	9.7
90°	0.6	0.6	0.6	1.2	1.8	1.8	2.4	3.0	3.6	4.2	5.5
92.5°	5.5	5.5	4.9	5.5	5.5	5.5	5.5	6.1	6.7	6.7	7.9
95°	16.4	15.8	15.8	15.8	15.8	15.8	15.8	16.4	17.0	17.0	17.6
97.5°	31.5	31.5	30.9	30.9	31.5	31.5	31.5	32.2	33.4	32.8	34.0
100°	49.1	49.1	48.5	49.1	49.7	50.4	51.6	51.6	52.8	52.8	54.6
102.5°	69.2	69.2	68.6	69.8	70.4	71.6	71.6	72.8	74.6	74.6	77.0
105°	89.2	89.8	89.8	91.0	92.2	93.4	93.4	95.2	97.7	97.7	100.7
107.5°	111.0	111.6	111.6	112.8	114.1	115.3	115.9	118.3	120.7	121.3	125.0
110°	132.3	132.9	133.5	134.7	135.9	137.7	138.9	141.3	144.4	145.6	148.6



TEST NUMBER: P395497

CATALOG NUMBER: I3-FL-20L82765-1D-UNV-W2A-W-4 (6500K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	152.3	154.7	155.3	157.1	158.9	160.8	162.0	165.0	168.6	170.5	174.1
115°	175.3	176.5	177.1	179.0	181.4	183.2	184.4	187.5	191.1	193.5	197.8
117.5°	194.1	197.2	197.8	199.6	202.0	203.8	205.0	208.7	212.9	216.0	220.2
120°	214.1	216.6	219.0	220.2	222.0	224.5	225.7	229.3	234.2	237.2	242.1
122.5°	232.3	234.8	237.2	239.0	241.4	242.7	244.5	248.7	253.6	257.2	262.1
125°	250.5	253.6	255.4	257.2	260.3	261.5	263.3	267.5	272.4	276.6	281.5
127.5°	268.1	270.0	273.0	274.2	277.2	278.5	280.3	285.1	290.0	294.2	299.1
130°	284.5	286.9	289.4	290.0	293.6	295.4	297.3	301.5	307.0	311.2	316.1
132.5°	300.3	301.5	304.5	306.4	309.4	311.2	313.0	316.7	322.1	326.4	331.2
135°	314.9	316.1	319.7	321.5	323.3	325.2	327.6	331.2	336.7	340.9	345.8
137.5°	329.4	330.6	334.3	336.1	337.3	339.1	340.9	344.6	350.0	354.3	358.5
140°	342.8	344.0	346.4	348.8	350.0	351.3	353.1	356.7	361.6	365.8	370.1
142.5°	354.9	356.1	358.5	361.0	362.8	362.8	364.6	367.6	373.1	377.3	381.0
145°	366.4	367.0	369.5	371.9	374.3	374.3	374.9	377.9	382.8	387.7	391.3
147.5°	377.3	377.9	379.8	382.2	384.0	384.6	385.8	387.0	391.9	396.8	401.0
150°	387.0	387.7	388.9	391.3	392.5	393.7	394.9	395.5	399.2	403.4	408.3
152.5°	395.5	396.1	397.4	399.2	400.4	401.6	402.8	404.6	406.5	410.7	413.7
155°	404.0	404.6	405.2	407.1	408.3	408.9	409.5	411.9	413.7	416.2	419.2
157.5°	411.3	411.3	411.9	413.1	414.3	414.3	414.9	417.4	419.2	421.6	423.4
160°	417.4	417.4	418.0	419.2	419.2	419.8	420.4	422.2	423.4	426.5	428.9
162.5°	422.8	422.2	422.8	423.4	423.4	423.4	424.0	425.3	427.1	429.5	431.9
165°	427.1	427.1	427.1	427.7	427.7	427.1	427.1	428.3	429.5	431.3	433.1
167.5°	430.7	430.7	430.1	430.7	430.1	430.1	429.5	430.1	430.7	432.5	433.8
170°	433.8	433.1	433.1	433.1	432.5	431.9	431.9	431.9	431.9	433.1	434.4
172.5°	436.2	435.6	435.0	435.0	433.8	433.1	433.1	432.5	432.5	433.1	433.8
175°	436.8	436.2	435.6	435.6	434.4	433.8	433.1	433.1	432.5	433.1	433.8
177.5°	438.0	437.4	436.2	436.2	435.0	433.8	433.8	433.1	432.5	433.1	433.1
180°	431.9	431.9	431.9	431.9	431.9	431.9	431.9	431.9	431.9	431.9	431.9



TEST NUMBER: P395497

CATALOG NUMBER: I3-FL-20L82765-1D-UNV-W2A-W-4 (6500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	242.1	242.1	242.1	242.1	242.1	242.1	242.1	242.1	242.1	242.1
2.5°	243.3	243.3	242.7	242.1	242.1	241.4	240.8	240.2	239.6	239.0
5°	243.3	242.7	242.1	242.1	241.4	241.4	241.4	240.8	240.2	240.2
7.5°	243.3	243.3	242.7	242.1	242.1	242.1	242.1	242.1	241.4	241.4
10°	243.3	242.7	242.7	242.7	242.1	242.7	242.7	242.1	242.1	241.4
12.5°	242.7	242.7	242.7	242.7	242.7	242.7	242.7	242.7	242.7	242.1
15°	241.4	242.1	242.1	242.7	242.7	242.7	243.3	243.3	242.7	242.7
17.5°	240.8	241.4	242.1	242.7	242.7	242.7	243.3	243.3	243.3	243.3
20°	239.6	240.2	240.8	241.4	241.4	242.1	242.1	242.7	242.7	242.7
22.5°	237.2	237.8	239.0	239.6	240.2	240.8	241.4	241.4	241.4	241.4
25°	234.8	236.0	236.6	237.8	238.4	239.0	239.6	239.6	239.6	240.2
27.5°	231.7	233.0	234.8	235.4	236.0	236.6	237.2	237.8	237.8	237.8
30°	228.1	229.9	231.1	232.3	233.0	233.6	234.2	234.2	234.8	234.8
32.5°	223.9	225.7	226.9	228.1	228.7	229.3	230.5	230.5	231.1	231.1
35°	218.4	220.2	222.0	223.2	223.9	224.5	225.7	226.3	226.3	226.3
37.5°	212.9	214.8	216.6	218.4	219.0	219.6	220.8	220.8	221.4	221.4
40°	206.3	208.1	209.9	211.7	211.7	212.9	213.5	214.1	214.8	214.8
42.5°	199.6	201.4	202.6	204.4	205.0	205.7	206.3	207.5	207.5	208.1
45°	191.7	193.5	194.7	196.6	197.2	197.8	199.0	199.6	200.2	200.2
47.5°	183.2	184.4	185.6	187.5	188.7	189.3	189.9	190.5	191.1	190.5
50°	173.5	174.7	176.5	178.4	179.0	179.6	180.8	180.8	181.4	181.4
52.5°	163.2	165.0	166.2	168.0	168.6	169.3	170.5	170.5	171.1	171.1
55°	151.7	152.9	154.1	157.1	157.7	158.3	159.5	159.5	160.2	160.8
57.5°	140.7	141.3	143.2	144.4	145.6	145.6	146.2	146.8	147.4	147.4
60°	129.2	129.8	131.0	132.9	132.9	133.5	134.7	134.7	135.3	135.3
62.5°	117.1	118.3	119.5	121.3	120.7	121.3	122.5	122.5	123.2	123.2
65°	105.0	105.6	106.8	108.0	108.6	108.6	109.2	109.8	110.4	110.4
67.5°	92.2	93.4	94.0	95.9	95.2	95.9	96.5	96.5	97.1	97.1
70°	80.1	80.7	81.9	82.5	82.5	83.1	83.7	83.7	83.7	84.3
72.5°	67.9	68.6	69.2	69.8	69.8	70.4	71.0	71.0	71.6	71.6
75°	55.2	56.4	57.0	58.2	57.6	58.2	59.5	59.5	59.5	59.5
77.5°	44.3	44.9	46.1	46.7	46.7	46.7	47.9	47.3	47.9	47.9
80°	33.4	34.0	35.2	35.8	35.8	36.4	37.0	37.0	37.0	37.6
82.5°	23.7	24.9	26.1	26.7	26.7	27.3	27.9	27.9	28.5	28.5
85°	16.4	17.6	18.8	18.8	19.4	20.0	20.6	20.6	20.6	20.6
87.5°	10.9	11.5	12.1	12.7	13.3	13.3	14.0	14.0	14.6	14.6
90°	6.1	6.7	7.3	7.9	7.9	8.5	8.5	9.1	9.1	9.1
92.5°	8.5	8.5	9.1	9.7	9.7	9.7	9.7	10.3	10.3	10.3
95°	18.2	18.8	18.8	20.0	20.0	20.0	20.6	20.6	20.6	20.6
97.5°	35.2	35.2	35.2	36.4	36.4	36.4	37.0	37.0	37.0	37.6
100°	55.2	55.8	55.8	57.6	57.0	58.2	58.2	58.2	58.2	58.8
102.5°	77.7	78.9	79.5	81.3	81.3	81.3	82.5	81.9	82.5	82.5
105°	101.9	103.1	103.7	105.6	106.8	106.8	108.0	107.4	108.0	108.6
107.5°	126.2	128.0	129.2	131.0	132.3	132.9	132.9	133.5	134.1	134.7
110°	151.1	152.9	155.9	157.7	158.3	159.5	160.2	160.8	161.4	162.6



TEST NUMBER: P395497

CATALOG NUMBER: I3-FL-20L82765-1D-UNV-W2A-W-4 (6500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	177.1	179.0	181.4	183.8	183.2	185.0	186.2	186.8	187.5	186.8
115°	200.8	203.2	205.7	208.1	208.1	209.3	211.7	212.3	212.3	213.5
117.5°	223.2	226.3	228.7	231.1	231.7	233.0	234.8	236.6	236.6	237.8
120°	245.1	248.7	251.2	253.6	254.8	255.4	257.2	259.6	259.6	259.6
122.5°	265.7	268.7	271.8	274.2	275.4	276.6	277.8	280.9	280.9	282.1
125°	285.1	288.8	291.8	294.2	295.4	296.7	299.1	300.9	301.5	301.5
127.5°	303.3	307.0	310.0	313.0	313.6	314.9	317.3	319.7	320.3	320.9
130°	320.3	324.0	327.0	330.0	331.2	331.8	334.9	336.7	337.9	338.5
132.5°	335.5	339.1	342.2	345.2	346.4	347.6	349.4	352.5	353.1	353.1
135°	349.4	353.1	356.1	359.7	360.4	361.6	364.0	365.8	367.0	367.6
137.5°	362.2	365.8	369.5	372.5	373.7	374.3	376.7	379.2	380.4	381.0
140°	373.7	377.3	381.0	383.4	384.0	385.8	387.7	390.1	391.3	391.9
142.5°	384.6	387.7	390.7	393.7	394.3	395.5	397.4	399.8	401.0	401.6
145°	394.3	397.4	399.8	402.2	402.8	404.0	405.8	407.7	408.9	409.5
147.5°	403.4	405.8	408.3	410.1	410.7	411.9	413.1	414.3	415.6	416.2
150°	411.3	412.5	414.9	416.2	416.8	418.0	419.2	420.4	421.6	422.2
152.5°	417.4	419.2	420.4	422.2	422.8	423.4	424.7	425.9	427.1	427.1
155°	422.2	424.0	425.3	427.1	427.7	428.3	429.5	430.1	431.3	431.3
157.5°	425.9	427.7	428.9	430.1	430.7	431.3	431.9	433.1	434.4	434.4
160°	430.1	430.7	431.3	432.5	432.5	433.1	433.8	434.4	435.6	435.6
162.5°	433.8	434.4	433.1	433.8	433.1	433.8	434.4	435.0	435.6	435.6
165°	435.0	436.2	435.6	436.2	436.2	436.2	436.2	436.8	436.8	436.8
167.5°	435.0	436.2	435.6	435.6	436.2	436.2	436.8	437.4	437.4	437.4
170°	435.0	435.6	435.0	434.4	435.0	435.0	435.0	435.6	435.6	435.6
172.5°	434.4	435.0	433.8	433.1	433.1	433.1	432.5	432.5	431.9	431.9
175°	433.8	433.8	432.5	431.9	431.9	431.9	430.7	430.1	429.5	428.9
177.5°	433.1	433.1	431.3	430.7	430.7	430.1	430.1	428.9	428.9	428.3
180°	431.9	431.9	431.9	431.9	431.9	431.9	431.9	431.9	431.9	431.9

(END OF REPORT)