

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: P395493

Luminaire Tested: **I3-FL-20L82765-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395493  
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 (4000K)  
Description: CORELITE I3, FROSTED TOP COVER  
2000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2124.6 lumens  
Efficiency: N/A  
Efficacy: 129.5 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

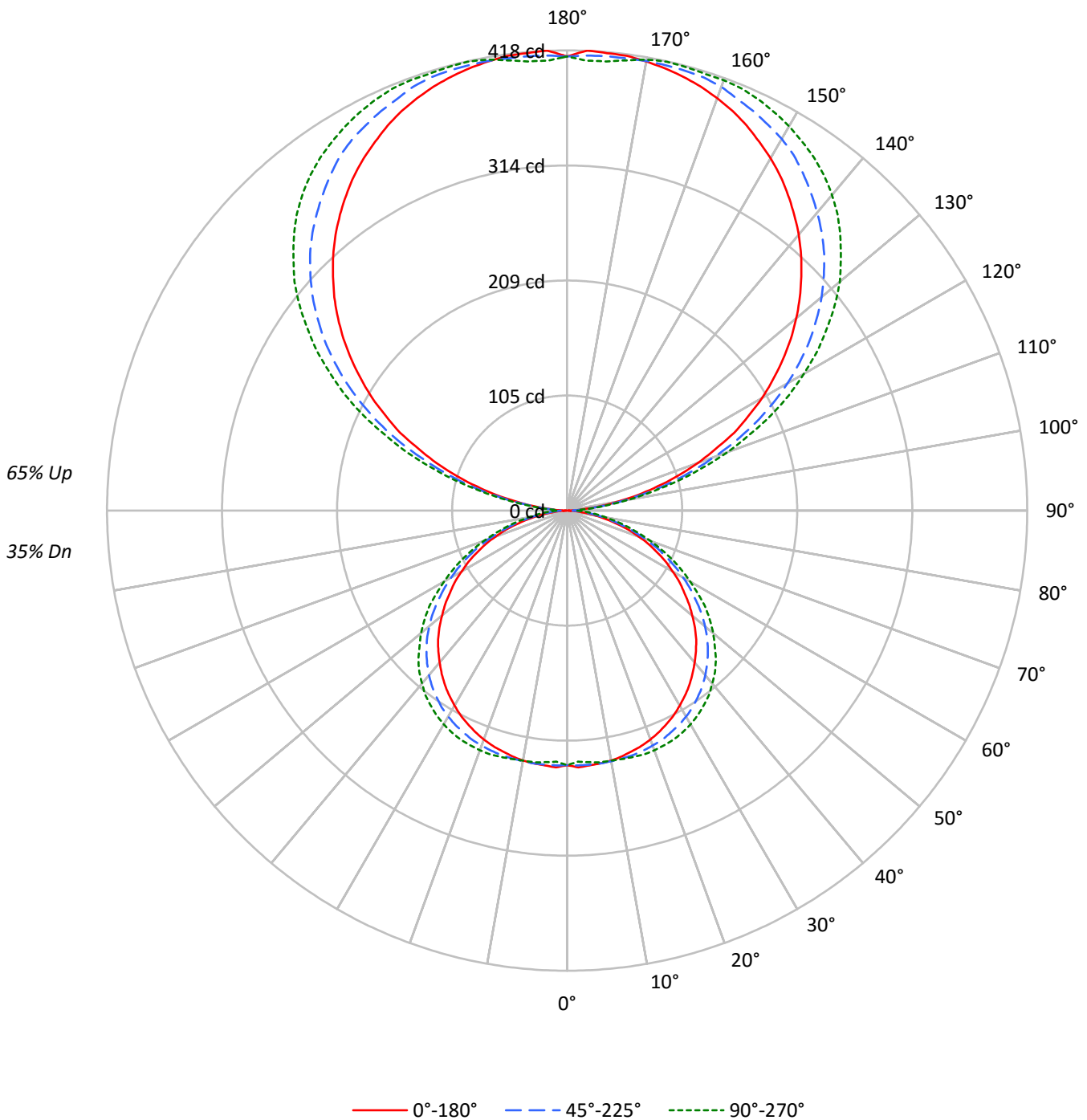
Input Watts (W): 16.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1271	1271	1271
5°	1277	1249	1230
10°	1277	1233	1216
15°	1274	1222	1210
20°	1275	1211	1209
25°	1271	1201	1204
30°	1267	1189	1193
35°	1261	1170	1176
40°	1248	1145	1150
45°	1235	1110	1115
50°	1207	1061	1060
55°	1173	994	997
60°	1133	916	900
65°	1077	821	799
70°	1000	699	675
75°	870	555	538
80°	681	395	393
85°	369	226	258



TEST NUMBER: P395493

CATALOG NUMBER: I3-FL-20L82765-1D-UNV-W2A-W-4 (4000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	22.0	1.0
10°-20°	64.8	3.1
20°-30°	102.2	4.8
30°-40°	128.5	6.0
40°-50°	138.1	6.5
50°-60°	127.1	6.0
60°-70°	97.4	4.6
70°-80°	55.4	2.6
80°-90°	17.3	0.8
90°-100°	23.1	1.1
100°-110°	100.7	4.7
110°-120°	184.3	8.7
120°-130°	237.6	11.2
130°-140°	252.8	11.9
140°-150°	232.6	10.9
150°-160°	184.3	8.7
160°-170°	116.7	5.5
170°-180°	39.5	1.9
0°-30°	189.1	8.9
0°-40°	317.6	14.9
0°-60°	582.8	27.4
0°-90°	752.9	35.4
90°-120°	308.2	14.5
90°-150°	1031.2	48.5
90°-180°	1372.0	64.6
0°-180°	2124.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	231	231	231	231	231	
5°	232	230	232	231	229	22
15°	226	225	230	232	232	64
25°	214	214	222	228	229	99
35°	194	196	207	214	216	121
45°	166	170	181	188	191	128
55°	130	135	143	151	154	116
65°	90	93	99	104	105	90
75°	48	49	52	55	57	50
85°	9	11	14	18	20	11
90°	1	2	5	8	9	1
95°	16	15	17	19	20	20
105°	85	89	96	102	104	91
115°	167	175	189	199	204	164
125°	239	250	269	282	288	214
135°	301	310	330	344	351	232
145°	350	358	374	385	391	219
155°	386	390	400	408	412	178
165°	408	408	414	417	417	115
175°	417	414	414	412	410	40
180°	412	412	412	412	412	



TEST NUMBER: P395493

CATALOG NUMBER: I3-FL-20L82765-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	231.2	231.2	231.2	231.2	231.2	231.2	231.2	231.2	231.2	231.2	231.2
2.5°	233.5	232.9	232.3	231.2	231.2	230.6	230.6	230.6	230.6	231.2	231.7
5°	232.3	232.3	231.7	230.6	230.6	230.0	230.0	230.6	230.0	230.6	231.7
7.5°	231.7	231.7	231.2	230.0	230.0	230.0	230.0	230.0	230.0	230.6	231.7
10°	230.6	230.6	229.4	228.8	228.8	228.8	228.8	229.4	229.4	230.0	231.2
12.5°	228.8	228.3	227.7	227.1	227.1	227.1	227.7	228.3	228.3	229.4	230.6
15°	226.5	226.5	226.0	225.4	225.4	225.4	226.0	226.5	227.1	228.3	230.0
17.5°	224.2	224.2	223.6	223.6	223.6	223.6	224.2	224.8	226.0	227.1	228.8
20°	221.3	221.3	220.7	220.7	220.7	221.3	221.3	222.5	223.6	225.4	227.1
22.5°	217.8	217.8	217.8	217.3	217.8	218.4	219.0	220.2	221.3	223.1	225.4
25°	213.8	213.8	213.8	213.8	214.4	214.4	215.5	216.7	217.8	220.2	222.5
27.5°	209.7	209.7	209.7	209.2	210.3	210.9	211.5	213.2	214.4	217.3	219.6
30°	204.5	204.5	204.5	205.1	205.7	206.3	207.4	209.2	210.3	213.2	216.1
32.5°	199.3	199.3	199.3	199.3	201.0	201.6	202.2	203.9	206.3	209.2	212.0
35°	193.5	193.5	193.5	194.1	195.2	195.8	197.0	198.7	201.0	203.9	206.8
37.5°	187.1	187.7	187.7	188.3	189.5	190.6	191.8	193.5	195.8	198.7	201.6
40°	180.2	180.8	180.8	181.3	182.5	183.7	184.8	187.1	189.5	192.3	195.2
42.5°	173.2	173.8	173.8	175.0	176.1	177.3	178.4	180.8	183.1	186.0	188.3
45°	165.7	166.3	166.3	167.4	169.2	169.8	171.5	173.8	176.1	178.4	180.8
47.5°	157.6	158.2	158.2	159.3	161.1	162.2	163.4	165.7	167.4	170.3	172.7
50°	148.3	148.9	149.5	150.6	153.0	154.1	155.3	157.0	159.3	161.1	163.4
52.5°	139.6	139.6	140.2	141.4	143.1	144.3	144.8	146.6	149.5	151.8	154.1
55°	129.8	130.4	130.9	132.1	133.8	135.0	135.6	137.3	139.0	140.8	143.1
57.5°	121.1	121.1	121.7	122.8	124.6	125.1	125.7	126.9	129.2	130.9	132.7
60°	110.7	111.2	111.8	113.0	114.1	115.3	115.3	117.0	118.8	120.5	121.7
62.5°	101.4	101.4	102.0	103.1	103.7	104.9	104.9	106.6	107.8	109.5	110.7
65°	90.4	91.0	91.5	92.1	93.3	93.3	93.9	95.0	96.2	97.3	99.1
67.5°	80.5	80.5	81.1	81.7	82.3	82.3	82.8	84.0	85.2	86.3	87.5
70°	69.5	70.1	70.1	70.1	70.7	71.3	71.8	72.4	73.6	74.2	75.3
72.5°	58.5	58.5	59.1	59.1	59.7	60.3	60.8	61.4	62.0	63.2	63.7
75°	47.5	47.5	48.1	48.1	48.7	48.7	48.7	49.8	50.4	51.6	52.1
77.5°	36.5	37.1	37.1	37.1	37.7	38.2	38.2	38.8	40.0	40.6	41.1
80°	26.7	26.7	26.7	26.7	27.2	27.8	28.4	28.4	29.5	30.7	31.3
82.5°	16.8	16.8	17.4	18.0	18.0	18.5	19.1	19.7	20.9	21.4	22.0
85°	8.7	8.7	9.3	9.8	10.4	11.0	11.0	11.6	12.7	13.9	14.5
87.5°	2.9	3.5	3.5	4.1	4.6	5.2	5.8	6.4	7.5	8.7	9.3
90°	0.6	0.6	0.6	1.2	1.7	1.7	2.3	2.9	3.5	4.1	5.2
92.5°	5.2	5.2	4.6	5.2	5.2	5.2	5.2	5.8	6.4	6.4	7.5
95°	15.6	15.1	15.1	15.1	15.1	15.1	15.1	15.6	16.2	16.2	16.8
97.5°	30.1	30.1	29.5	29.5	30.1	30.1	30.1	30.7	31.9	31.3	32.4
100°	46.9	46.9	46.3	46.9	47.5	48.1	49.2	49.2	50.4	50.4	52.1
102.5°	66.0	66.0	65.5	66.6	67.2	68.4	68.4	69.5	71.3	71.3	73.6
105°	85.2	85.7	85.7	86.9	88.1	89.2	89.2	91.0	93.3	93.3	96.2
107.5°	106.0	106.6	106.6	107.8	108.9	110.1	110.7	113.0	115.3	115.9	119.3
110°	126.3	126.9	127.5	128.6	129.8	131.5	132.7	135.0	137.9	139.0	141.9



TEST NUMBER: P395493

CATALOG NUMBER: I3-FL-20L82765-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	145.4	147.7	148.3	150.1	151.8	153.5	154.7	157.6	161.1	162.8	166.3
115°	167.4	168.6	169.2	170.9	173.2	175.0	176.1	179.0	182.5	184.8	188.9
117.5°	185.4	188.3	188.9	190.6	192.9	194.7	195.8	199.3	203.4	206.3	210.3
120°	204.5	206.8	209.2	210.3	212.0	214.4	215.5	219.0	223.6	226.5	231.2
122.5°	221.9	224.2	226.5	228.3	230.6	231.7	233.5	237.5	242.2	245.7	250.3
125°	239.3	242.2	243.9	245.7	248.5	249.7	251.4	255.5	260.1	264.2	268.8
127.5°	256.1	257.8	260.7	261.9	264.8	265.9	267.7	272.3	276.9	281.0	285.6
130°	271.7	274.0	276.4	276.9	280.4	282.2	283.9	287.9	293.2	297.2	301.9
132.5°	286.8	287.9	290.8	292.6	295.5	297.2	299.0	302.4	307.6	311.7	316.3
135°	300.7	301.9	305.3	307.1	308.8	310.5	312.9	316.3	321.5	325.6	330.2
137.5°	314.6	315.8	319.2	321.0	322.1	323.9	325.6	329.1	334.3	338.4	342.4
140°	327.3	328.5	330.8	333.1	334.3	335.5	337.2	340.7	345.3	349.4	353.4
142.5°	338.9	340.1	342.4	344.7	346.5	346.5	348.2	351.1	356.3	360.4	363.8
145°	349.9	350.5	352.8	355.2	357.5	357.5	358.0	360.9	365.6	370.2	373.7
147.5°	360.4	360.9	362.7	365.0	366.7	367.3	368.5	369.6	374.3	378.9	383.0
150°	369.6	370.2	371.4	373.7	374.9	376.0	377.2	377.7	381.2	385.3	389.9
152.5°	377.7	378.3	379.5	381.2	382.4	383.5	384.7	386.4	388.2	392.2	395.1
155°	385.9	386.4	387.0	388.8	389.9	390.5	391.1	393.4	395.1	397.4	400.3
157.5°	392.8	392.8	393.4	394.5	395.7	395.7	396.3	398.6	400.3	402.7	404.4
160°	398.6	398.6	399.2	400.3	400.3	400.9	401.5	403.2	404.4	407.3	409.6
162.5°	403.8	403.2	403.8	404.4	404.4	404.4	405.0	406.1	407.9	410.2	412.5
165°	407.9	407.9	407.9	408.5	408.5	407.9	407.9	409.0	410.2	411.9	413.7
167.5°	411.4	411.4	410.8	411.4	410.8	410.8	410.2	410.8	411.4	413.1	414.2
170°	414.2	413.7	413.7	413.7	413.1	412.5	412.5	412.5	412.5	413.7	414.8
172.5°	416.6	416.0	415.4	415.4	414.2	413.7	413.7	413.1	413.1	413.7	414.2
175°	417.1	416.6	416.0	416.0	414.8	414.2	413.7	413.7	413.1	413.7	414.2
177.5°	418.3	417.7	416.6	416.6	415.4	414.2	414.2	413.7	413.1	413.7	413.7
180°	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5



TEST NUMBER: P395493

CATALOG NUMBER: I3-FL-20L82765-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	231.2	231.2	231.2	231.2	231.2	231.2	231.2	231.2	231.2	231.2
2.5°	232.3	232.3	231.7	231.2	231.2	230.6	230.0	229.4	228.8	228.3
5°	232.3	231.7	231.2	231.2	230.6	230.6	230.6	230.0	229.4	229.4
7.5°	232.3	232.3	231.7	231.2	231.2	231.2	231.2	231.2	230.6	230.6
10°	232.3	231.7	231.7	231.7	231.2	231.7	231.7	231.2	231.2	230.6
12.5°	231.7	231.7	231.7	231.7	231.7	231.7	231.7	231.7	231.7	231.2
15°	230.6	231.2	231.2	231.7	231.7	231.7	232.3	232.3	231.7	231.7
17.5°	230.0	230.6	231.2	231.7	231.7	231.7	232.3	232.3	232.3	232.3
20°	228.8	229.4	230.0	230.6	230.6	231.2	231.2	231.7	231.7	231.7
22.5°	226.5	227.1	228.3	228.8	229.4	230.0	230.6	230.6	230.6	230.6
25°	224.2	225.4	226.0	227.1	227.7	228.3	228.8	228.8	228.8	229.4
27.5°	221.3	222.5	224.2	224.8	225.4	226.0	226.5	227.1	227.1	227.1
30°	217.8	219.6	220.7	221.9	222.5	223.1	223.6	223.6	224.2	224.2
32.5°	213.8	215.5	216.7	217.8	218.4	219.0	220.2	220.2	220.7	220.7
35°	208.6	210.3	212.0	213.2	213.8	214.4	215.5	216.1	216.1	216.1
37.5°	203.4	205.1	206.8	208.6	209.2	209.7	210.9	210.9	211.5	211.5
40°	197.0	198.7	200.5	202.2	202.2	203.4	203.9	204.5	205.1	205.1
42.5°	190.6	192.3	193.5	195.2	195.8	196.4	197.0	198.1	198.1	198.7
45°	183.1	184.8	186.0	187.7	188.3	188.9	190.0	190.6	191.2	191.2
47.5°	175.0	176.1	177.3	179.0	180.2	180.8	181.3	181.9	182.5	181.9
50°	165.7	166.9	168.6	170.3	170.9	171.5	172.7	172.7	173.2	173.2
52.5°	155.8	157.6	158.7	160.5	161.1	161.6	162.8	162.8	163.4	163.4
55°	144.8	146.0	147.2	150.1	150.6	151.2	152.4	152.4	153.0	153.5
57.5°	134.4	135.0	136.7	137.9	139.0	139.0	139.6	140.2	140.8	140.8
60°	123.4	124.0	125.1	126.9	126.9	127.5	128.6	128.6	129.2	129.2
62.5°	111.8	113.0	114.1	115.9	115.3	115.9	117.0	117.0	117.6	117.6
65°	100.2	100.8	102.0	103.1	103.7	103.7	104.3	104.9	105.4	105.4
67.5°	88.1	89.2	89.8	91.5	91.0	91.5	92.1	92.1	92.7	92.7
70°	76.5	77.1	78.2	78.8	78.8	79.4	80.0	80.0	80.0	80.5
72.5°	64.9	65.5	66.0	66.6	66.6	67.2	67.8	67.8	68.4	68.4
75°	52.7	53.9	54.5	55.6	55.0	55.6	56.8	56.8	56.8	56.8
77.5°	42.3	42.9	44.0	44.6	44.6	44.6	45.8	45.2	45.8	45.8
80°	31.9	32.4	33.6	34.2	34.2	34.8	35.3	35.3	35.3	35.9
82.5°	22.6	23.8	24.9	25.5	25.5	26.1	26.7	26.7	27.2	27.2
85°	15.6	16.8	18.0	18.0	18.5	19.1	19.7	19.7	19.7	19.7
87.5°	10.4	11.0	11.6	12.2	12.7	12.7	13.3	13.3	13.9	13.9
90°	5.8	6.4	7.0	7.5	7.5	8.1	8.1	8.7	8.7	8.7
92.5°	8.1	8.1	8.7	9.3	9.3	9.3	9.3	9.8	9.8	9.8
95°	17.4	18.0	18.0	19.1	19.1	19.1	19.7	19.7	19.7	19.7
97.5°	33.6	33.6	33.6	34.8	34.8	34.8	35.3	35.3	35.3	35.9
100°	52.7	53.3	53.3	55.0	54.5	55.6	55.6	55.6	55.6	56.2
102.5°	74.2	75.3	75.9	77.6	77.6	77.6	78.8	78.2	78.8	78.8
105°	97.3	98.5	99.1	100.8	102.0	102.0	103.1	102.5	103.1	103.7
107.5°	120.5	122.2	123.4	125.1	126.3	126.9	126.9	127.5	128.0	128.6
110°	144.3	146.0	148.9	150.6	151.2	152.4	153.0	153.5	154.1	155.3





TEST NUMBER: P395493

CATALOG NUMBER: I3-FL-20L82765-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	169.2	170.9	173.2	175.5	175.0	176.7	177.9	178.4	179.0	178.4
115°	191.8	194.1	196.4	198.7	198.7	199.9	202.2	202.8	202.8	203.9
117.5°	213.2	216.1	218.4	220.7	221.3	222.5	224.2	226.0	226.0	227.1
120°	234.1	237.5	239.9	242.2	243.3	243.9	245.7	248.0	248.0	248.0
122.5°	253.8	256.7	259.6	261.9	263.0	264.2	265.4	268.2	268.2	269.4
125°	272.3	275.8	278.7	281.0	282.2	283.3	285.6	287.4	287.9	287.9
127.5°	289.7	293.2	296.1	299.0	299.5	300.7	303.0	305.3	305.9	306.5
130°	305.9	309.4	312.3	315.2	316.3	316.9	319.8	321.5	322.7	323.3
132.5°	320.4	323.9	326.8	329.7	330.8	332.0	333.7	336.6	337.2	337.2
135°	333.7	337.2	340.1	343.6	344.1	345.3	347.6	349.4	350.5	351.1
137.5°	345.9	349.4	352.8	355.7	356.9	357.5	359.8	362.1	363.3	363.8
140°	356.9	360.4	363.8	366.2	366.7	368.5	370.2	372.5	373.7	374.3
142.5°	367.3	370.2	373.1	376.0	376.6	377.7	379.5	381.8	383.0	383.5
145°	376.6	379.5	381.8	384.1	384.7	385.9	387.6	389.3	390.5	391.1
147.5°	385.3	387.6	389.9	391.7	392.2	393.4	394.5	395.7	396.9	397.4
150°	392.8	394.0	396.3	397.4	398.0	399.2	400.3	401.5	402.7	403.2
152.5°	398.6	400.3	401.5	403.2	403.8	404.4	405.6	406.7	407.9	407.9
155°	403.2	405.0	406.1	407.9	408.5	409.0	410.2	410.8	411.9	411.9
157.5°	406.7	408.5	409.6	410.8	411.4	411.9	412.5	413.7	414.8	414.8
160°	410.8	411.4	411.9	413.1	413.1	413.7	414.2	414.8	416.0	416.0
162.5°	414.2	414.8	413.7	414.2	413.7	414.2	414.8	415.4	416.0	416.0
165°	415.4	416.6	416.0	416.6	416.6	416.6	416.6	417.1	417.1	417.1
167.5°	415.4	416.6	416.0	416.0	416.6	416.6	417.1	417.7	417.7	417.7
170°	415.4	416.0	415.4	414.8	415.4	415.4	415.4	416.0	416.0	416.0
172.5°	414.8	415.4	414.2	413.7	413.7	413.7	413.1	413.1	412.5	412.5
175°	414.2	414.2	413.1	412.5	412.5	412.5	411.4	410.8	410.2	409.6
177.5°	413.7	413.7	411.9	411.4	411.4	410.8	410.8	409.6	409.6	409.0
180°	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5

(END OF REPORT)