

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: P395337

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

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395337  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-656-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: I3-CL-20L82765-1D-UNV-W2A-W-4 (4000K)  
Description: CORELITE I3, CLEAR 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: 2155.4 lumens  
Efficiency: N/A  
Efficacy: 131.4 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.52 / 1.54  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')  
CIE Type: Semi-Indirect

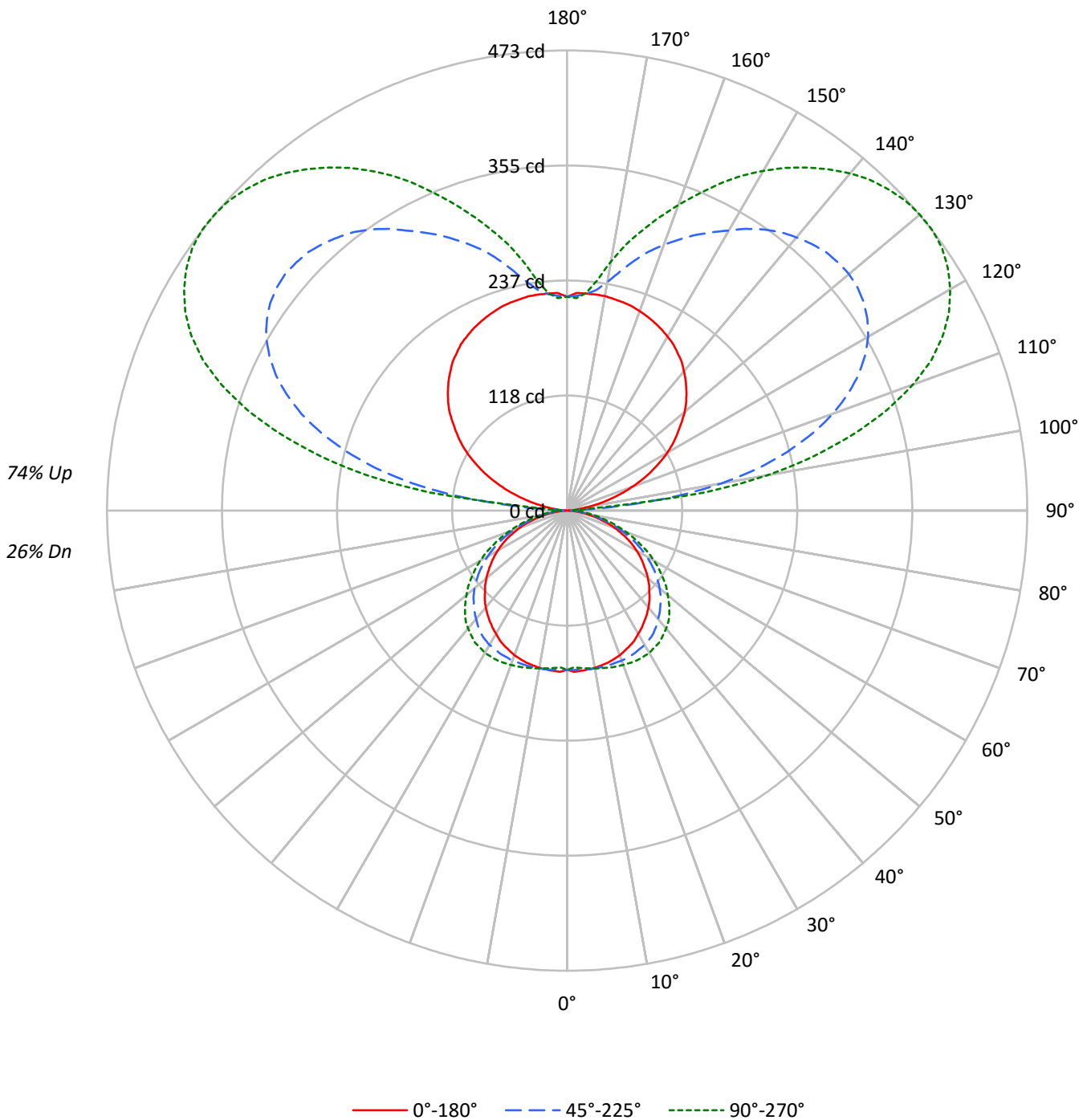
Input Watts (W): 16.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P395337

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

### Luminous Intensity Polar Plot





TEST NUMBER: P395337

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

**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	101	101	101	101	91	91	91	91	70	70	70	51	51	51	34	34	34	26
1	92	88	84	81	82	79	75	73	61	59	57	45	43	42	30	29	28	22
2	84	77	71	65	74	68	63	59	53	50	47	39	37	35	26	25	24	18
3	76	67	60	54	68	60	54	49	47	42	39	34	32	29	23	21	20	15
4	70	59	51	45	62	53	46	41	41	37	33	30	27	25	20	18	17	13
5	64	52	44	39	56	47	40	35	37	32	28	27	24	21	18	16	15	11
6	58	47	39	33	52	42	35	30	33	28	24	24	21	18	16	14	13	9
7	54	42	34	29	48	38	31	26	30	25	21	22	19	16	15	13	11	8
8	50	38	30	25	44	34	27	23	27	22	18	20	17	14	14	11	10	7
9	46	34	27	22	41	31	25	20	24	20	16	18	15	13	12	10	9	6
10	43	31	24	20	38	28	22	18	22	18	15	17	13	11	11	9	8	6

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	899	899	899
5°	909	885	871
10°	909	878	868
15°	910	875	872
20°	912	875	881
25°	910	876	892
30°	906	878	898
35°	903	873	899
40°	900	854	888
45°	891	833	866
50°	883	806	827
55°	865	765	780
60°	844	711	719
65°	809	639	638
70°	751	544	540
75°	649	433	433
80°	502	308	318
85°	297	191	212



TEST NUMBER: P395337

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

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15.7	0.7
10°-20°	46.5	2.2
20°-30°	74.5	3.5
30°-40°	95.3	4.4
40°-50°	103.9	4.8
50°-60°	97.4	4.5
60°-70°	75.6	3.5
70°-80°	43.3	2.0
80°-90°	13.8	0.6
90°-100°	55.6	2.6
100°-110°	216.1	10.0
110°-120°	294.2	13.6
120°-130°	305.4	14.2
130°-140°	270.9	12.6
140°-150°	210.2	9.8
150°-160°	140.3	6.5
160°-170°	74.8	3.5
170°-180°	21.9	1.0
0°-30°	136.7	6.3
0°-40°	232.0	10.8
0°-60°	433.4	20.1
0°-90°	566.1	26.3
90°-120°	565.9	26.3
90°-150°	1352.4	62.7
90°-180°	1589.0	73.7
0°-180°	2155.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	164	164	164	164	164	
5°	165	164	164	164	162	16
15°	162	161	165	167	167	46
25°	153	154	162	168	170	71
35°	139	142	154	162	165	87
45°	120	125	136	144	148	92
55°	96	101	110	118	120	86
65°	68	71	77	82	84	67
75°	35	37	41	45	46	38
85°	7	8	12	16	16	8
90°	1	2	4	6	7	1
95°	7	39	54	11	10	9
105°	46	139	235	279	306	49
115°	96	214	331	389	426	94
125°	139	252	372	437	470	124
135°	173	266	376	441	467	134
145°	198	266	353	410	430	124
155°	213	251	313	354	371	98
165°	222	231	266	291	298	63
175°	224	223	223	224	224	21
180°	220	220	220	220	220	



TEST NUMBER: P395337

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

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	163.6	163.6	163.6	163.6	163.6	163.6	163.6	163.6	163.6	163.6	163.6
2.5°	165.9	165.3	165.3	164.1	164.1	163.6	163.6	163.6	163.6	163.6	164.1
5°	165.3	165.3	164.7	164.1	164.1	163.6	163.6	163.6	163.6	163.6	164.1
7.5°	164.7	164.7	164.1	163.6	163.6	163.6	163.6	163.6	163.6	163.6	164.7
10°	164.1	164.1	163.6	163.0	163.0	163.0	163.0	163.6	163.6	163.6	164.7
12.5°	163.0	162.4	162.4	161.8	161.8	161.8	162.4	162.4	163.0	163.6	164.7
15°	161.8	161.8	161.2	160.7	161.2	161.2	161.2	161.8	162.4	163.0	164.7
17.5°	160.1	160.1	159.5	159.5	159.5	160.1	160.1	160.7	161.8	163.0	164.1
20°	158.3	157.8	157.8	157.8	158.3	158.3	158.9	160.1	160.7	162.4	164.1
22.5°	155.4	156.0	155.4	155.4	156.0	156.6	157.2	158.3	159.5	161.2	163.0
25°	153.1	153.1	153.1	153.1	154.3	154.3	155.4	156.6	158.3	160.1	162.4
27.5°	150.2	150.2	150.2	150.8	151.4	152.0	152.5	154.3	156.0	158.3	160.7
30°	146.2	146.2	146.2	146.2	147.9	148.5	149.6	152.0	153.7	156.6	159.5
32.5°	142.7	142.7	142.7	143.3	144.4	145.0	146.2	149.1	151.4	154.3	157.2
35°	138.6	138.6	139.2	139.2	140.9	141.5	142.7	145.0	147.3	150.8	154.3
37.5°	134.6	134.6	135.1	135.7	136.9	138.0	139.2	141.5	143.8	146.7	150.2
40°	129.9	129.9	130.5	131.1	132.8	134.0	135.1	137.5	139.8	142.7	145.6
42.5°	125.3	125.3	125.9	126.4	128.2	129.3	130.5	133.4	135.7	138.6	140.9
45°	119.5	120.1	120.6	121.8	123.5	124.7	125.9	128.2	131.1	133.4	135.7
47.5°	114.3	114.8	115.4	116.6	118.3	119.5	120.6	123.0	125.3	127.6	130.5
50°	108.5	109.0	109.6	110.8	112.5	113.7	114.8	117.2	119.5	121.2	124.1
52.5°	102.1	102.7	103.2	104.4	106.7	107.3	108.5	110.8	112.5	114.8	117.2
55°	95.7	96.3	96.9	98.0	99.8	100.9	101.5	103.8	105.6	107.9	110.2
57.5°	89.3	89.9	90.5	91.6	92.8	94.0	94.5	96.3	98.6	100.3	102.7
60°	82.4	82.9	83.5	84.1	85.8	86.4	87.0	88.7	90.5	92.8	94.5
62.5°	75.4	75.4	76.0	76.6	78.3	78.9	79.5	80.6	82.9	84.1	85.8
65°	67.9	67.9	68.4	69.0	70.2	70.8	71.3	72.5	74.2	75.4	77.1
67.5°	59.7	59.7	60.3	60.9	62.1	62.6	62.6	64.4	65.5	66.7	67.9
70°	52.2	52.2	52.8	52.8	53.4	53.9	54.5	55.7	56.3	58.0	58.6
72.5°	44.1	44.1	44.1	44.1	45.2	45.2	45.8	47.0	47.6	48.7	49.9
75°	35.4	35.4	36.0	36.0	36.5	37.1	37.7	38.3	39.4	40.0	40.6
77.5°	27.8	27.3	27.8	28.4	29.0	29.0	29.6	30.2	30.7	31.9	32.5
80°	19.7	19.7	19.7	20.3	20.9	20.9	21.5	22.0	22.6	23.8	24.4
82.5°	12.8	12.8	13.3	13.3	13.9	14.5	14.5	15.1	15.7	16.8	17.4
85°	7.0	7.0	7.0	7.5	8.1	8.1	8.7	9.3	10.4	11.0	12.2
87.5°	2.3	2.3	2.9	3.5	4.1	4.1	4.6	5.2	5.8	7.0	7.5
90°	0.6	0.6	0.6	1.2	1.2	1.7	1.7	2.3	2.9	3.5	4.1
92.5°	2.3	4.1	6.4	9.3	8.7	9.3	6.4	4.1	4.1	4.1	4.6
95°	7.0	10.4	16.8	26.7	34.8	39.4	43.5	47.6	55.7	56.3	53.9
97.5°	13.9	19.1	30.7	43.5	58.0	65.5	71.3	83.5	96.3	104.4	114.3
100°	23.2	30.7	45.8	63.2	80.0	89.9	99.2	116.6	132.2	146.2	161.2
102.5°	34.2	42.9	61.5	82.9	103.8	114.8	124.7	145.0	166.5	185.0	201.3
105°	45.8	55.7	77.7	102.1	125.9	138.6	150.8	172.8	195.5	215.8	234.9
107.5°	58.6	69.0	92.8	120.1	146.7	161.2	174.6	198.4	222.1	244.2	264.5
110°	70.8	82.4	107.3	136.9	167.0	181.5	194.9	221.0	245.9	269.1	290.6



TEST NUMBER: P395337

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

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	83.5	95.7	120.6	153.1	183.9	198.9	212.9	240.7	266.8	290.6	312.1
115°	95.7	107.3	133.4	167.0	198.4	214.0	229.1	257.5	284.8	308.6	330.6
117.5°	107.3	118.3	145.0	178.6	211.1	226.8	241.9	271.5	298.7	323.7	345.1
120°	118.9	128.8	157.8	188.5	221.6	237.2	252.9	282.5	310.3	335.3	357.3
122.5°	129.3	138.6	167.0	197.2	229.7	245.9	261.0	291.2	319.6	344.5	366.0
125°	138.6	147.3	175.7	204.2	236.7	252.3	268.0	297.6	326.0	350.3	372.4
127.5°	147.9	156.6	182.1	211.1	241.3	257.5	272.6	302.2	330.0	355.0	376.4
130°	157.8	164.1	188.5	217.5	245.9	261.0	276.7	305.1	332.4	356.7	378.2
132.5°	165.9	171.7	194.9	222.7	249.4	263.9	277.8	306.3	333.5	356.7	377.6
135°	173.4	178.1	199.5	227.4	252.3	265.7	279.0	305.7	332.4	355.6	375.9
137.5°	180.4	185.0	203.6	230.9	254.6	266.2	279.0	303.9	329.5	352.7	371.8
140°	186.8	190.2	207.1	232.6	255.8	266.8	277.8	301.0	324.8	347.4	366.6
142.5°	193.1	196.0	210.0	233.8	256.4	266.8	277.3	297.6	319.6	341.6	360.8
145°	197.8	200.7	212.3	234.3	255.8	265.7	274.9	294.1	313.8	334.1	352.7
147.5°	203.0	205.3	214.6	233.2	254.1	263.3	272.0	289.4	307.4	326.0	343.4
150°	206.5	208.8	215.8	232.0	251.2	259.9	268.6	284.8	301.0	317.3	332.4
152.5°	210.0	211.7	217.5	230.3	247.7	255.8	263.9	279.6	294.7	309.2	322.5
155°	212.9	214.6	218.7	229.1	243.6	251.2	258.7	273.8	287.7	300.5	312.6
157.5°	215.8	216.9	219.8	227.4	239.0	245.9	252.9	266.2	279.0	291.8	301.6
160°	218.1	218.7	221.0	226.8	234.9	240.1	246.5	258.7	270.3	281.3	290.6
162.5°	220.4	220.4	222.1	225.6	231.4	234.9	239.6	250.0	260.4	270.3	279.0
165°	221.6	221.6	222.7	225.0	228.5	230.9	233.8	240.7	248.8	257.5	265.7
167.5°	222.7	222.7	223.3	224.5	226.8	228.0	229.1	233.8	239.0	245.4	251.7
170°	223.9	223.3	223.3	224.5	225.0	225.6	226.2	228.5	230.9	234.9	238.4
172.5°	223.9	223.3	223.3	223.9	223.9	223.9	223.9	224.5	225.0	227.4	228.5
175°	223.9	223.3	223.3	223.3	223.3	222.7	222.7	222.7	222.7	222.7	223.3
177.5°	223.9	223.3	222.7	222.7	222.1	222.1	221.6	221.6	221.0	221.0	221.0
180°	219.8	219.8	219.8	219.8	219.8	219.8	219.8	219.8	219.8	219.8	219.8



TEST NUMBER: P395337

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

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	163.6	163.6	163.6	163.6	163.6	163.6	163.6	163.6	163.6	163.6
2.5°	164.1	164.1	163.6	163.6	163.0	163.0	162.4	161.8	161.2	161.2
5°	164.7	164.1	163.6	163.6	163.6	163.0	163.0	163.0	162.4	162.4
7.5°	164.7	164.7	164.7	164.1	164.1	164.1	164.1	164.1	163.6	163.6
10°	165.3	165.3	165.3	165.3	165.3	165.3	165.3	164.7	164.7	164.7
12.5°	165.3	165.3	165.3	165.9	165.9	165.9	165.9	165.9	165.9	165.9
15°	165.9	165.9	166.5	166.5	167.0	167.0	167.6	167.6	167.6	167.0
17.5°	165.3	165.9	166.5	167.0	167.6	167.6	168.2	168.2	168.2	168.2
20°	165.3	166.5	167.0	167.6	168.2	168.2	168.8	169.4	169.4	168.8
22.5°	164.7	165.9	166.5	167.6	168.2	168.2	169.4	169.4	169.4	169.4
25°	164.1	165.3	166.5	167.6	168.2	168.2	169.4	169.4	169.9	169.9
27.5°	163.0	164.1	165.9	167.0	167.6	168.2	168.8	169.4	169.4	169.4
30°	161.2	163.0	164.7	165.9	166.5	167.0	167.6	168.2	168.8	168.8
32.5°	158.9	160.7	162.4	164.1	164.7	165.3	166.5	167.0	167.0	167.0
35°	156.6	158.3	160.1	161.8	162.4	163.0	164.1	164.7	165.3	165.3
37.5°	153.1	154.9	156.6	158.3	158.9	160.1	161.2	161.8	161.8	161.8
40°	147.9	150.8	153.1	154.9	155.4	156.6	157.2	158.3	158.3	158.3
42.5°	143.3	145.6	147.3	149.6	150.2	152.0	153.1	153.7	154.3	154.3
45°	138.0	140.4	142.1	143.8	144.4	145.6	146.7	147.3	147.9	148.5
47.5°	132.8	134.6	136.3	138.0	138.6	139.8	140.9	141.5	142.1	142.1
50°	126.4	128.2	129.9	131.7	132.2	133.4	134.0	134.6	135.1	135.1
52.5°	119.5	121.2	123.0	124.7	125.3	125.9	127.0	127.6	128.2	128.2
55°	112.5	114.3	115.4	117.2	117.7	118.3	118.9	120.1	120.6	120.1
57.5°	104.4	106.1	107.3	109.0	109.6	110.2	110.8	111.4	111.9	111.9
60°	95.7	97.4	99.2	100.3	100.9	101.5	102.1	102.7	103.2	103.2
62.5°	87.0	88.7	89.9	91.6	92.2	92.2	92.8	93.4	94.0	94.0
65°	78.3	80.0	80.6	82.4	82.4	82.9	83.5	84.1	84.1	84.1
67.5°	69.0	70.8	71.3	72.5	72.5	73.1	73.7	74.2	74.2	74.2
70°	60.3	60.9	62.1	62.6	63.2	63.2	63.8	64.4	65.0	64.4
72.5°	51.0	51.6	52.8	53.4	53.4	53.9	53.9	54.5	55.1	55.1
75°	41.8	42.9	43.5	44.1	44.7	44.7	45.2	45.8	45.8	45.8
77.5°	33.1	34.2	34.8	35.4	36.0	36.0	36.5	36.5	37.1	36.5
80°	25.5	26.1	26.7	27.3	27.8	27.8	28.4	29.0	29.0	29.0
82.5°	18.6	19.1	20.3	20.9	20.9	20.9	22.0	22.0	22.6	22.0
85°	12.8	13.3	14.5	15.1	15.7	15.7	15.7	16.2	16.8	16.2
87.5°	8.1	9.3	9.9	10.4	10.4	10.4	11.0	11.6	11.6	11.6
90°	4.6	4.6	5.2	5.8	5.8	6.4	6.4	7.0	7.0	7.0
92.5°	4.6	5.2	5.2	5.2	5.8	5.8	5.8	6.4	6.4	6.4
95°	39.4	28.4	16.2	12.8	11.0	11.0	10.4	11.0	10.4	10.4
97.5°	119.5	129.3	134.0	140.4	143.8	143.3	140.9	143.3	141.5	143.3
100°	169.9	179.2	186.2	187.9	191.4	193.1	199.5	204.2	206.5	209.4
102.5°	211.1	222.1	230.3	234.9	238.4	240.7	248.3	255.2	258.7	261.0
105°	248.8	260.4	270.3	274.9	279.0	281.3	289.4	297.6	302.8	305.7
107.5°	279.0	292.3	302.8	309.7	313.8	317.9	327.7	335.8	342.2	345.1
110°	306.3	319.6	330.6	338.7	343.4	347.4	358.5	367.7	374.7	378.2





TEST NUMBER: P395337

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

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	328.9	343.4	354.4	363.1	367.7	373.5	384.0	394.4	401.4	405.4
115°	347.4	362.5	374.1	383.4	388.6	393.8	406.0	416.5	423.4	426.3
117.5°	363.1	378.2	390.4	399.6	405.4	411.2	423.4	432.7	440.2	442.6
120°	375.9	390.9	403.1	413.6	419.4	424.6	436.2	446.0	453.0	454.7
122.5°	384.6	400.2	413.0	424.6	429.8	435.0	446.0	455.9	462.3	464.0
125°	390.9	407.2	419.9	432.1	437.3	442.6	453.0	462.9	468.1	470.4
127.5°	395.0	411.2	425.2	436.8	442.6	447.2	457.6	466.3	471.6	473.3
130°	396.2	413.0	426.9	439.1	444.3	448.9	458.8	467.5	472.1	473.3
132.5°	396.2	412.4	426.9	438.5	443.7	448.4	457.6	465.8	470.4	471.6
135°	393.8	409.5	424.0	435.6	440.8	445.5	454.7	461.7	466.3	466.9
137.5°	389.8	404.9	418.8	430.4	435.6	440.2	448.4	455.9	460.0	461.1
140°	384.6	398.5	412.4	423.4	428.6	432.7	440.8	447.2	451.3	452.4
142.5°	377.6	391.5	404.3	415.3	419.4	424.0	431.0	437.3	440.8	442.0
145°	370.1	383.4	395.0	404.9	409.5	413.6	419.9	425.7	429.2	430.4
147.5°	360.2	373.5	384.6	393.8	397.9	402.0	407.8	413.0	416.5	417.6
150°	348.0	360.2	371.8	380.5	384.6	388.6	394.4	399.1	402.5	403.1
152.5°	335.8	347.4	357.3	366.0	370.1	374.1	379.3	384.0	388.0	388.0
155°	324.2	334.1	343.4	350.9	354.4	357.9	363.1	367.2	370.6	370.6
157.5°	312.1	321.3	328.9	335.8	338.7	341.6	346.3	349.8	352.7	352.1
160°	300.5	307.4	314.4	320.2	323.1	325.4	328.9	331.8	334.7	334.1
162.5°	287.7	294.1	299.9	303.9	306.3	308.0	311.5	314.4	316.1	316.1
165°	273.2	279.0	284.2	288.3	290.6	291.8	294.7	296.4	298.1	298.1
167.5°	258.1	262.8	267.4	270.9	273.2	274.4	277.3	278.4	280.7	280.2
170°	243.0	246.5	250.0	252.9	254.1	255.2	257.5	258.7	259.9	259.9
172.5°	230.9	232.0	233.8	236.1	236.1	236.7	237.8	238.4	239.0	239.0
175°	223.9	224.5	224.5	224.5	224.5	224.5	225.0	224.5	225.0	224.5
177.5°	221.0	221.0	220.4	220.4	219.8	220.4	219.8	219.2	219.2	218.7
180°	219.8	219.8	219.8	219.8	219.8	219.8	219.8	219.8	219.8	219.8

(END OF REPORT)