

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: P395344

Luminaire Tested: **I3-CL-20L83050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395344  
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-20L83050-1D-UNV-W2A-W-4 (4000K)  
Description: CORELITE I3, CLEAR TOP COVER  
2000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 3000K/5000K CCT, 80 CRI LEDS, TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2274.3 lumens  
Efficiency: N/A  
Efficacy: 137.0 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

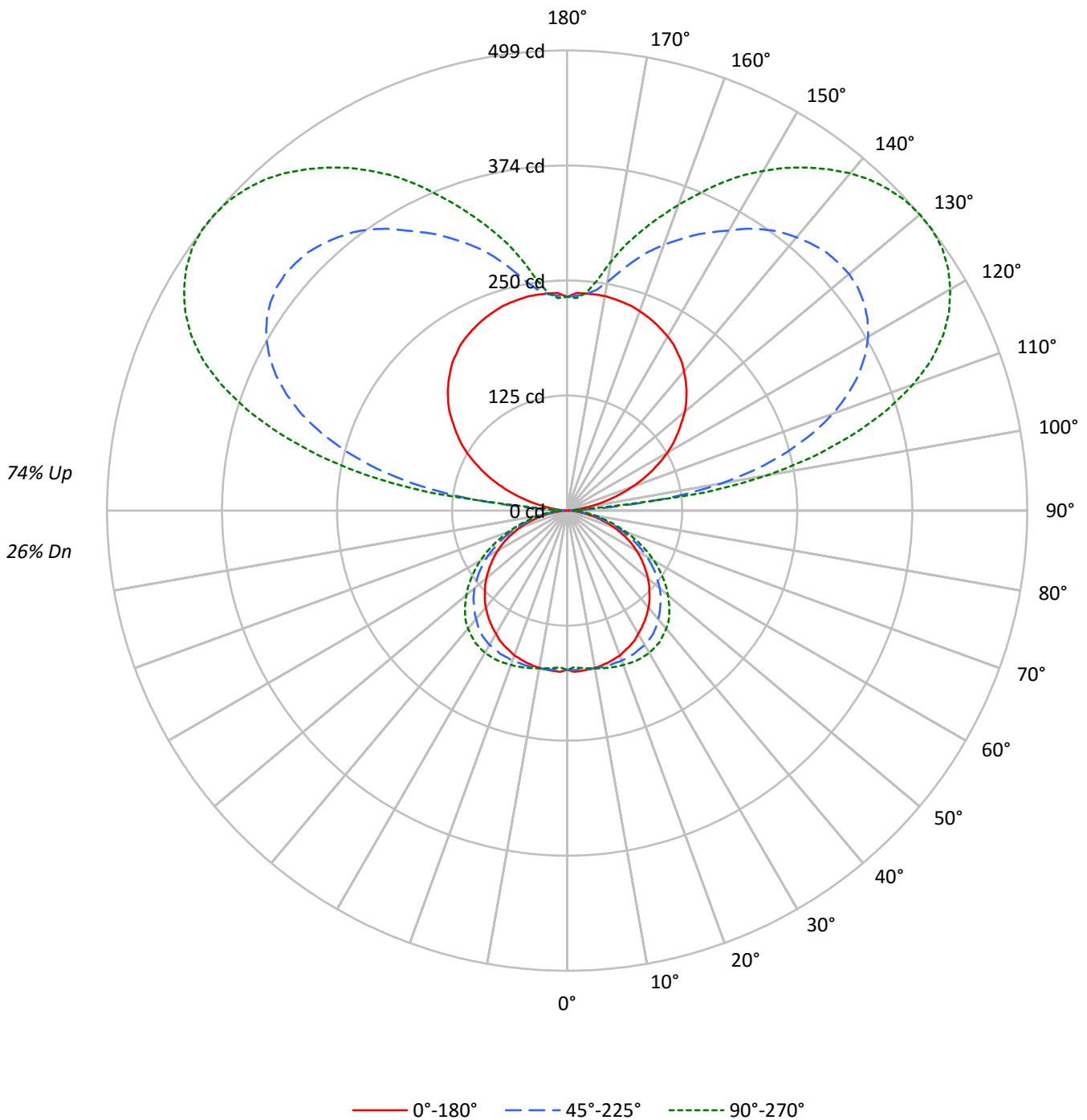
Input Watts (W): 16.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	949	949	949
5°	959	934	919
10°	959	927	916
15°	960	923	921
20°	962	924	929
25°	961	925	941
30°	955	926	948
35°	953	921	949
40°	950	901	937
45°	940	879	914
50°	931	851	873
55°	912	808	823
60°	890	751	759
65°	853	674	673
70°	793	574	570
75°	684	456	457
80°	530	324	335
85°	310	201	224



TEST NUMBER: P395344

CATALOG NUMBER: I3-CL-20L83050-1D-UNV-W2A-W-4 (4000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	16.5	0.7
10°-20°	49.1	2.2
20°-30°	78.7	3.5
30°-40°	100.6	4.4
40°-50°	109.7	4.8
50°-60°	102.8	4.5
60°-70°	79.7	3.5
70°-80°	45.7	2.0
80°-90°	14.6	0.6
90°-100°	58.7	2.6
100°-110°	228.0	10.0
110°-120°	310.4	13.6
120°-130°	322.2	14.2
130°-140°	285.8	12.6
140°-150°	221.8	9.8
150°-160°	148.0	6.5
160°-170°	78.9	3.5
170°-180°	23.1	1.0
0°-30°	144.2	6.3
0°-40°	244.8	10.8
0°-60°	457.3	20.1
0°-90°	597.3	26.3
90°-120°	597.1	26.3
90°-150°	1427.0	62.7
90°-180°	1677.0	73.7
0°-180°	2274.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	173	173	173	173	173	
5°	174	173	173	173	171	17
15°	171	170	174	176	176	48
25°	162	163	171	178	179	74
35°	146	149	163	171	174	92
45°	126	132	143	152	157	97
55°	101	106	116	124	127	90
65°	72	75	81	87	89	71
75°	37	39	43	47	48	40
85°	7	9	13	16	17	9
90°	1	2	4	6	7	1
95°	7	42	57	12	11	10
105°	48	146	248	294	322	52
115°	101	226	349	410	450	100
125°	146	266	393	461	496	131
135°	183	280	397	465	493	141
145°	209	280	372	432	454	131
155°	225	265	330	374	391	104
165°	234	244	280	307	315	66
175°	236	235	236	237	237	23
180°	232	232	232	232	232	



TEST NUMBER: P395344

CATALOG NUMBER: I3-CL-20L83050-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	172.6	172.6	172.6	172.6	172.6	172.6	172.6	172.6	172.6	172.6	172.6
2.5°	175.0	174.4	174.4	173.2	173.2	172.6	172.6	172.6	172.6	172.6	173.2
5°	174.4	174.4	173.8	173.2	173.2	172.6	172.6	172.6	172.6	172.6	173.2
7.5°	173.8	173.8	173.2	172.6	172.6	172.6	172.6	172.6	172.6	172.6	173.8
10°	173.2	173.2	172.6	172.0	172.0	172.0	172.0	172.6	172.6	172.6	173.8
12.5°	172.0	171.4	171.4	170.7	170.7	170.7	171.4	171.4	172.0	172.6	173.8
15°	170.7	170.7	170.1	169.5	170.1	170.1	170.1	170.7	171.4	172.0	173.8
17.5°	168.9	168.9	168.3	168.3	168.3	168.9	168.9	169.5	170.7	172.0	173.2
20°	167.1	166.5	166.5	166.5	167.1	167.1	167.7	168.9	169.5	171.4	173.2
22.5°	164.0	164.6	164.0	164.0	164.6	165.2	165.8	167.1	168.3	170.1	172.0
25°	161.6	161.6	161.6	161.6	162.8	162.8	164.0	165.2	167.1	168.9	171.4
27.5°	158.5	158.5	158.5	159.1	159.7	160.3	161.0	162.8	164.6	167.1	169.5
30°	154.2	154.2	154.2	154.2	156.1	156.7	157.9	160.3	162.2	165.2	168.3
32.5°	150.5	150.5	150.5	151.2	152.4	153.0	154.2	157.3	159.7	162.8	165.8
35°	146.3	146.3	146.9	146.9	148.7	149.3	150.5	153.0	155.4	159.1	162.8
37.5°	142.0	142.0	142.6	143.2	144.4	145.7	146.9	149.3	151.8	154.8	158.5
40°	137.1	137.1	137.7	138.3	140.1	141.4	142.6	145.0	147.5	150.5	153.6
42.5°	132.2	132.2	132.8	133.4	135.3	136.5	137.7	140.8	143.2	146.3	148.7
45°	126.1	126.7	127.3	128.5	130.4	131.6	132.8	135.3	138.3	140.8	143.2
47.5°	120.6	121.2	121.8	123.0	124.8	126.1	127.3	129.7	132.2	134.6	137.7
50°	114.4	115.1	115.7	116.9	118.7	120.0	121.2	123.6	126.1	127.9	131.0
52.5°	107.7	108.3	108.9	110.2	112.6	113.2	114.4	116.9	118.7	121.2	123.6
55°	101.0	101.6	102.2	103.4	105.3	106.5	107.1	109.5	111.4	113.8	116.3
57.5°	94.2	94.9	95.5	96.7	97.9	99.1	99.8	101.6	104.0	105.9	108.3
60°	86.9	87.5	88.1	88.7	90.6	91.2	91.8	93.6	95.5	97.9	99.8
62.5°	79.6	79.6	80.2	80.8	82.6	83.2	83.8	85.1	87.5	88.7	90.6
65°	71.6	71.6	72.2	72.8	74.1	74.7	75.3	76.5	78.3	79.6	81.4
67.5°	63.0	63.0	63.6	64.3	65.5	66.1	66.1	67.9	69.2	70.4	71.6
70°	55.1	55.1	55.7	55.7	56.3	56.9	57.5	58.8	59.4	61.2	61.8
72.5°	46.5	46.5	46.5	46.5	47.7	47.7	48.3	49.6	50.2	51.4	52.6
75°	37.3	37.3	37.9	37.9	38.6	39.2	39.8	40.4	41.6	42.2	42.8
77.5°	29.4	28.8	29.4	30.0	30.6	30.6	31.2	31.8	32.4	33.7	34.3
80°	20.8	20.8	20.8	21.4	22.0	22.0	22.6	23.3	23.9	25.1	25.7
82.5°	13.5	13.5	14.1	14.1	14.7	15.3	15.3	15.9	16.5	17.7	18.4
85°	7.3	7.3	7.3	8.0	8.6	8.6	9.2	9.8	11.0	11.6	12.9
87.5°	2.4	2.4	3.1	3.7	4.3	4.3	4.9	5.5	6.1	7.3	8.0
90°	0.6	0.6	0.6	1.2	1.2	1.8	1.8	2.4	3.1	3.7	4.3
92.5°	2.4	4.3	6.7	9.8	9.2	9.8	6.7	4.3	4.3	4.3	4.9
95°	7.3	11.0	17.7	28.2	36.7	41.6	45.9	50.2	58.8	59.4	56.9
97.5°	14.7	20.2	32.4	45.9	61.2	69.2	75.3	88.1	101.6	110.2	120.6
100°	24.5	32.4	48.3	66.7	84.5	94.9	104.7	123.0	139.5	154.2	170.1
102.5°	36.1	45.3	64.9	87.5	109.5	121.2	131.6	153.0	175.6	195.2	212.4
105°	48.3	58.8	82.0	107.7	132.8	146.3	159.1	182.4	206.2	227.7	247.9
107.5°	61.8	72.8	97.9	126.7	154.8	170.1	184.2	209.3	234.4	257.6	279.1
110°	74.7	86.9	113.2	144.4	176.3	191.6	205.6	233.2	259.5	284.0	306.6



TEST NUMBER: P395344

CATALOG NUMBER: I3-CL-20L83050-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	88.1	101.0	127.3	161.6	194.0	209.9	224.6	254.0	281.5	306.6	329.3
115°	101.0	113.2	140.8	176.3	209.3	225.8	241.7	271.7	300.5	325.6	348.8
117.5°	113.2	124.8	153.0	188.5	222.8	239.3	255.2	286.4	315.2	341.5	364.1
120°	125.5	135.9	166.5	198.9	233.8	250.3	266.8	298.0	327.4	353.7	377.0
122.5°	136.5	146.3	176.3	208.1	242.3	259.5	275.4	307.2	337.2	363.5	386.2
125°	146.3	155.4	185.4	215.4	249.7	266.2	282.7	314.0	343.9	369.6	392.9
127.5°	156.1	165.2	192.2	222.8	254.6	271.7	287.6	318.8	348.2	374.5	397.2
130°	166.5	173.2	198.9	229.5	259.5	275.4	291.9	321.9	350.7	376.4	399.0
132.5°	175.0	181.1	205.6	235.0	263.2	278.5	293.1	323.1	351.9	376.4	398.4
135°	183.0	187.9	210.5	239.9	266.2	280.3	294.4	322.5	350.7	375.2	396.6
137.5°	190.3	195.2	214.8	243.6	268.7	280.9	294.4	320.7	347.6	372.1	392.3
140°	197.1	200.7	218.5	245.4	269.9	281.5	293.1	317.6	342.7	366.6	386.8
142.5°	203.8	206.9	221.5	246.6	270.5	281.5	292.5	314.0	337.2	360.5	380.7
145°	208.7	211.7	224.0	247.2	269.9	280.3	290.1	310.3	331.1	352.5	372.1
147.5°	214.2	216.6	226.4	246.0	268.1	277.8	287.0	305.4	324.4	343.9	362.3
150°	217.9	220.3	227.7	244.8	265.0	274.2	283.4	300.5	317.6	334.8	350.7
152.5°	221.5	223.4	229.5	243.0	261.3	269.9	278.5	295.0	310.9	326.2	340.3
155°	224.6	226.4	230.7	241.7	257.0	265.0	272.9	288.9	303.5	317.0	329.9
157.5°	227.7	228.9	231.9	239.9	252.1	259.5	266.8	280.9	294.4	307.8	318.2
160°	230.1	230.7	233.2	239.3	247.9	253.4	260.1	272.9	285.2	296.8	306.6
162.5°	232.6	232.6	234.4	238.1	244.2	247.9	252.8	263.8	274.8	285.2	294.4
165°	233.8	233.8	235.0	237.5	241.1	243.6	246.6	254.0	262.5	271.7	280.3
167.5°	235.0	235.0	235.6	236.8	239.3	240.5	241.7	246.6	252.1	258.9	265.6
170°	236.2	235.6	235.6	236.8	237.5	238.1	238.7	241.1	243.6	247.9	251.5
172.5°	236.2	235.6	235.6	236.2	236.2	236.2	236.2	236.8	237.5	239.9	241.1
175°	236.2	235.6	235.6	235.6	235.6	235.0	235.0	235.0	235.0	235.0	235.6
177.5°	236.2	235.6	235.0	235.0	234.4	234.4	233.8	233.8	233.2	233.2	233.2
180°	231.9	231.9	231.9	231.9	231.9	231.9	231.9	231.9	231.9	231.9	231.9



TEST NUMBER: P395344

CATALOG NUMBER: I3-CL-20L83050-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	172.6	172.6	172.6	172.6	172.6	172.6	172.6	172.6	172.6	172.6
2.5°	173.2	173.2	172.6	172.6	172.0	172.0	171.4	170.7	170.1	170.1
5°	173.8	173.2	172.6	172.6	172.6	172.0	172.0	172.0	171.4	171.4
7.5°	173.8	173.8	173.8	173.2	173.2	173.2	173.2	173.2	172.6	172.6
10°	174.4	174.4	174.4	174.4	174.4	174.4	174.4	173.8	173.8	173.8
12.5°	174.4	174.4	174.4	175.0	175.0	175.0	175.0	175.0	175.0	175.0
15°	175.0	175.0	175.6	175.6	176.3	176.3	176.9	176.9	176.9	176.3
17.5°	174.4	175.0	175.6	176.3	176.9	176.9	177.5	177.5	177.5	177.5
20°	174.4	175.6	176.3	176.9	177.5	177.5	178.1	178.7	178.7	178.1
22.5°	173.8	175.0	175.6	176.9	177.5	177.5	178.7	178.7	178.7	178.7
25°	173.2	174.4	175.6	176.9	177.5	177.5	178.7	178.7	179.3	179.3
27.5°	172.0	173.2	175.0	176.3	176.9	177.5	178.1	178.7	178.7	178.7
30°	170.1	172.0	173.8	175.0	175.6	176.3	176.9	177.5	178.1	178.1
32.5°	167.7	169.5	171.4	173.2	173.8	174.4	175.6	176.3	176.3	176.3
35°	165.2	167.1	168.9	170.7	171.4	172.0	173.2	173.8	174.4	174.4
37.5°	161.6	163.4	165.2	167.1	167.7	168.9	170.1	170.7	170.7	170.7
40°	156.1	159.1	161.6	163.4	164.0	165.2	165.8	167.1	167.1	167.1
42.5°	151.2	153.6	155.4	157.9	158.5	160.3	161.6	162.2	162.8	162.8
45°	145.7	148.1	149.9	151.8	152.4	153.6	154.8	155.4	156.1	156.7
47.5°	140.1	142.0	143.8	145.7	146.3	147.5	148.7	149.3	149.9	149.9
50°	133.4	135.3	137.1	138.9	139.5	140.8	141.4	142.0	142.6	142.6
52.5°	126.1	127.9	129.7	131.6	132.2	132.8	134.0	134.6	135.3	135.3
55°	118.7	120.6	121.8	123.6	124.2	124.8	125.5	126.7	127.3	126.7
57.5°	110.2	112.0	113.2	115.1	115.7	116.3	116.9	117.5	118.1	118.1
60°	101.0	102.8	104.7	105.9	106.5	107.1	107.7	108.3	108.9	108.9
62.5°	91.8	93.6	94.9	96.7	97.3	97.3	97.9	98.5	99.1	99.1
65°	82.6	84.5	85.1	86.9	86.9	87.5	88.1	88.7	88.7	88.7
67.5°	72.8	74.7	75.3	76.5	76.5	77.1	77.7	78.3	78.3	78.3
70°	63.6	64.3	65.5	66.1	66.7	66.7	67.3	67.9	68.5	67.9
72.5°	53.9	54.5	55.7	56.3	56.3	56.9	56.9	57.5	58.1	58.1
75°	44.1	45.3	45.9	46.5	47.1	47.1	47.7	48.3	48.3	48.3
77.5°	34.9	36.1	36.7	37.3	37.9	37.9	38.6	38.6	39.2	38.6
80°	26.9	27.5	28.2	28.8	29.4	29.4	30.0	30.6	30.6	30.6
82.5°	19.6	20.2	21.4	22.0	22.0	22.0	23.3	23.3	23.9	23.3
85°	13.5	14.1	15.3	15.9	16.5	16.5	16.5	17.1	17.7	17.1
87.5°	8.6	9.8	10.4	11.0	11.0	11.0	11.6	12.2	12.2	12.2
90°	4.9	4.9	5.5	6.1	6.1	6.7	6.7	7.3	7.3	7.3
92.5°	4.9	5.5	5.5	5.5	6.1	6.1	6.1	6.7	6.7	6.7
95°	41.6	30.0	17.1	13.5	11.6	11.6	11.0	11.6	11.0	11.0
97.5°	126.1	136.5	141.4	148.1	151.8	151.2	148.7	151.2	149.3	151.2
100°	179.3	189.1	196.4	198.3	202.0	203.8	210.5	215.4	217.9	220.9
102.5°	222.8	234.4	243.0	247.9	251.5	254.0	261.9	269.3	272.9	275.4
105°	262.5	274.8	285.2	290.1	294.4	296.8	305.4	314.0	319.5	322.5
107.5°	294.4	308.4	319.5	326.8	331.1	335.4	345.8	354.3	361.1	364.1
110°	323.1	337.2	348.8	357.4	362.3	366.6	378.2	388.0	395.3	399.0





TEST NUMBER: P395344

CATALOG NUMBER: I3-CL-20L83050-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	347.0	362.3	373.9	383.1	388.0	394.1	405.1	416.2	423.5	427.8
115°	366.6	382.5	394.7	404.5	410.0	415.5	428.4	439.4	446.8	449.8
117.5°	383.1	399.0	411.9	421.7	427.8	433.9	446.8	456.5	464.5	466.9
120°	396.6	412.5	425.3	436.3	442.5	448.0	460.2	470.6	478.0	479.8
122.5°	405.8	422.3	435.7	448.0	453.5	459.0	470.6	481.0	487.8	489.6
125°	412.5	429.6	443.1	455.9	461.4	466.9	478.0	488.4	493.9	496.3
127.5°	416.8	433.9	448.6	460.8	466.9	471.8	482.9	492.0	497.5	499.4
130°	418.0	435.7	450.4	463.3	468.8	473.7	484.1	493.3	498.2	499.4
132.5°	418.0	435.1	450.4	462.7	468.2	473.1	482.9	491.4	496.3	497.5
135°	415.5	432.1	447.4	459.6	465.1	470.0	479.8	487.1	492.0	492.7
137.5°	411.3	427.2	441.9	454.1	459.6	464.5	473.1	481.0	485.3	486.5
140°	405.8	420.4	435.1	446.8	452.3	456.5	465.1	471.8	476.1	477.4
142.5°	398.4	413.1	426.6	438.2	442.5	447.4	454.7	461.4	465.1	466.3
145°	390.5	404.5	416.8	427.2	432.1	436.3	443.1	449.2	452.9	454.1
147.5°	380.0	394.1	405.8	415.5	419.8	424.1	430.2	435.7	439.4	440.6
150°	367.2	380.0	392.3	401.5	405.8	410.0	416.2	421.0	424.7	425.3
152.5°	354.3	366.6	377.0	386.2	390.5	394.7	400.2	405.1	409.4	409.4
155°	342.1	352.5	362.3	370.3	373.9	377.6	383.1	387.4	391.1	391.1
157.5°	329.3	339.0	347.0	354.3	357.4	360.5	365.4	369.0	372.1	371.5
160°	317.0	324.4	331.7	337.8	340.9	343.3	347.0	350.1	353.1	352.5
162.5°	303.5	310.3	316.4	320.7	323.1	325.0	328.6	331.7	333.5	333.5
165°	288.2	294.4	299.9	304.2	306.6	307.8	310.9	312.7	314.6	314.6
167.5°	272.3	277.2	282.1	285.8	288.2	289.5	292.5	293.8	296.2	295.6
170°	256.4	260.1	263.8	266.8	268.1	269.3	271.7	272.9	274.2	274.2
172.5°	243.6	244.8	246.6	249.1	249.1	249.7	250.9	251.5	252.1	252.1
175°	236.2	236.8	236.8	236.8	236.8	236.8	237.5	236.8	237.5	236.8
177.5°	233.2	233.2	232.6	232.6	231.9	232.6	231.9	231.3	231.3	230.7
180°	231.9	231.9	231.9	231.9	231.9	231.9	231.9	231.9	231.9	231.9

(END OF REPORT)