

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: P395357

Luminaire Tested: **I3-CL-20L93050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395357
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-20L93050-1D-UNV-W2A-W-4 (4000K)
Description: CORELITE I3, CLEAR TOP COVER
2000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1982.7 lumens
Efficiency: N/A
Efficacy: 119.4 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

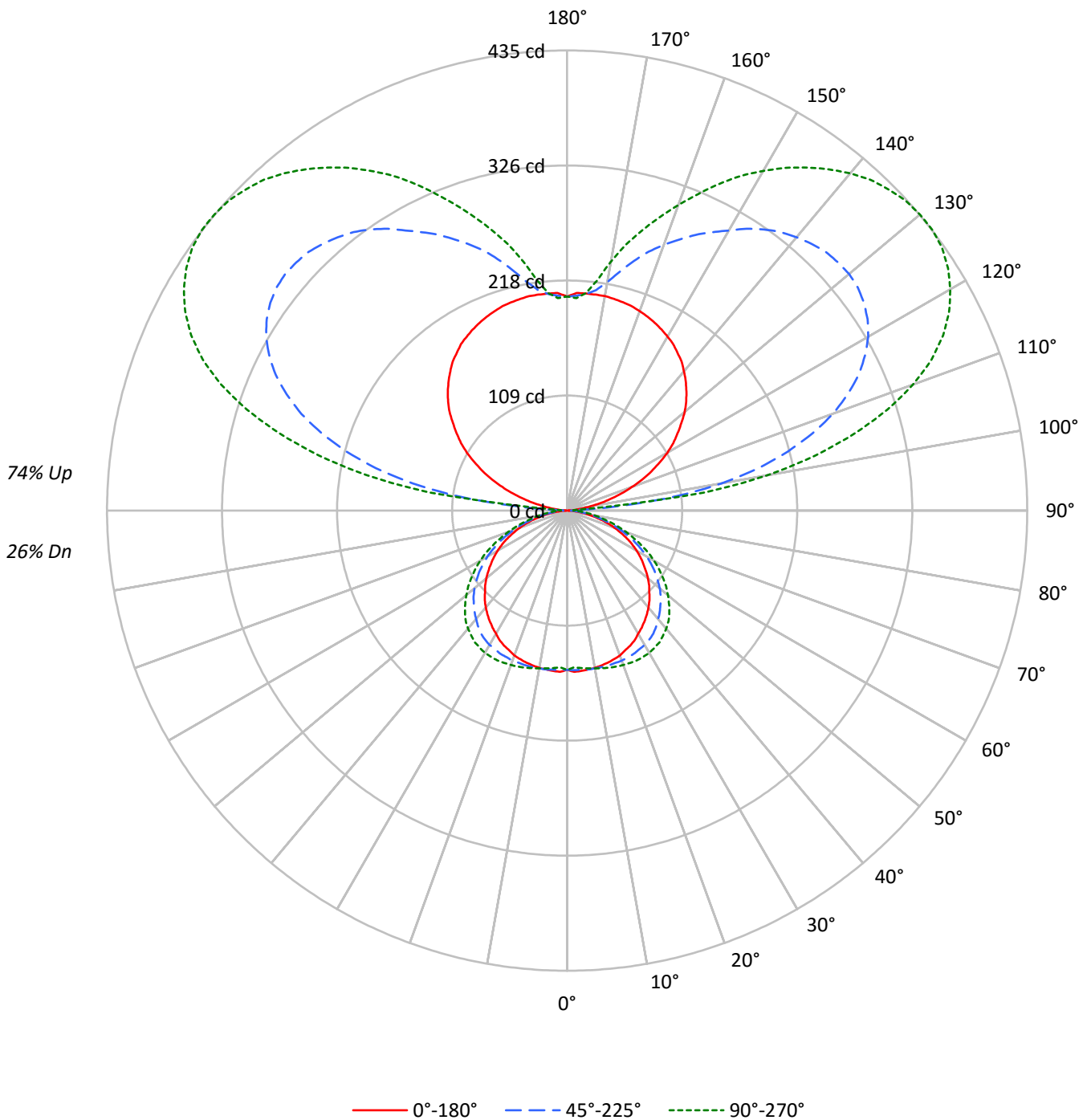
Input Watts (W): 16.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: I3-CL-20L93050-1D-UNV-W2A-W-4 (4000K)

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	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°	827	827	827
5°	836	814	801
10°	836	808	799
15°	838	805	803
20°	839	805	810
25°	838	806	820
30°	833	807	827
35°	831	803	827
40°	828	786	817
45°	819	766	796
50°	812	742	761
55°	795	704	717
60°	776	655	662
65°	744	588	587
70°	691	501	497
75°	596	398	398
80°	462	283	292
85°	272	175	195



TEST NUMBER: P395357

CATALOG NUMBER: I3-CL-20L93050-1D-UNV-W2A-W-4 (4000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.4	0.7
10°-20°	42.8	2.2
20°-30°	68.6	3.5
30°-40°	87.7	4.4
40°-50°	95.6	4.8
50°-60°	89.6	4.5
60°-70°	69.5	3.5
70°-80°	39.8	2.0
80°-90°	12.7	0.6
90°-100°	51.1	2.6
100°-110°	198.8	10.0
110°-120°	270.6	13.7
120°-130°	280.9	14.2
130°-140°	249.2	12.6
140°-150°	193.3	9.8
150°-160°	129.0	6.5
160°-170°	68.8	3.5
170°-180°	20.1	1.0
0°-30°	125.7	6.3
0°-40°	213.4	10.8
0°-60°	398.6	20.1
0°-90°	520.7	26.3
90°-120°	520.6	26.3
90°-150°	1244.0	62.7
90°-180°	1462.0	73.7
0°-180°	1982.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	150	150	150	150	150	
5°	152	150	151	150	149	14
15°	149	148	152	154	154	42
25°	141	142	149	155	156	65
35°	128	130	142	149	152	80
45°	110	115	125	133	137	85
55°	88	93	101	108	110	79
65°	62	65	71	76	77	62
75°	32	34	37	41	42	35
85°	6	8	11	14	15	8
90°	0	2	4	5	6	1
95°	6	36	50	10	10	8
105°	42	128	216	257	281	45
115°	88	197	304	358	392	87
125°	128	232	342	402	433	114
135°	160	244	346	406	430	123
145°	182	244	324	377	396	114
155°	196	231	288	326	341	90
165°	204	212	244	267	274	58
175°	206	205	205	206	206	20
180°	202	202	202	202	202	



TEST NUMBER: P395357

CATALOG NUMBER: I3-CL-20L93050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	150.5	150.5	150.5	150.5	150.5	150.5	150.5	150.5	150.5	150.5	150.5
2.5°	152.6	152.1	152.1	151.0	151.0	150.5	150.5	150.5	150.5	150.5	151.0
5°	152.1	152.1	151.5	151.0	151.0	150.5	150.5	150.5	150.5	150.5	151.0
7.5°	151.5	151.5	151.0	150.5	150.5	150.5	150.5	150.5	150.5	150.5	151.5
10°	151.0	151.0	150.5	149.9	149.9	149.9	149.9	150.5	150.5	150.5	151.5
12.5°	149.9	149.4	149.4	148.9	148.9	148.9	149.4	149.4	149.9	150.5	151.5
15°	148.9	148.9	148.3	147.8	148.3	148.3	148.3	148.9	149.4	149.9	151.5
17.5°	147.3	147.3	146.7	146.7	146.7	147.3	147.3	147.8	148.9	149.9	151.0
20°	145.7	145.1	145.1	145.1	145.7	145.7	146.2	147.3	147.8	149.4	151.0
22.5°	143.0	143.5	143.0	143.0	143.5	144.1	144.6	145.7	146.7	148.3	149.9
25°	140.9	140.9	140.9	140.9	141.9	141.9	143.0	144.1	145.7	147.3	149.4
27.5°	138.2	138.2	138.2	138.7	139.3	139.8	140.3	141.9	143.5	145.7	147.8
30°	134.4	134.4	134.4	134.4	136.1	136.6	137.7	139.8	141.4	144.1	146.7
32.5°	131.2	131.2	131.2	131.8	132.8	133.4	134.4	137.1	139.3	141.9	144.6
35°	127.5	127.5	128.0	128.0	129.6	130.2	131.2	133.4	135.5	138.7	141.9
37.5°	123.8	123.8	124.3	124.8	125.9	127.0	128.0	130.2	132.3	135.0	138.2
40°	119.5	119.5	120.0	120.6	122.2	123.2	124.3	126.4	128.6	131.2	133.9
42.5°	115.2	115.2	115.8	116.3	117.9	119.0	120.0	122.7	124.8	127.5	129.6
45°	109.9	110.4	111.0	112.0	113.6	114.7	115.8	117.9	120.6	122.7	124.8
47.5°	105.1	105.6	106.2	107.2	108.8	109.9	111.0	113.1	115.2	117.4	120.0
50°	99.8	100.3	100.8	101.9	103.5	104.6	105.6	107.8	109.9	111.5	114.2
52.5°	93.9	94.4	95.0	96.0	98.2	98.7	99.8	101.9	103.5	105.6	107.8
55°	88.0	88.6	89.1	90.2	91.8	92.8	93.4	95.5	97.1	99.2	101.4
57.5°	82.2	82.7	83.2	84.3	85.4	86.4	87.0	88.6	90.7	92.3	94.4
60°	75.8	76.3	76.8	77.4	79.0	79.5	80.0	81.6	83.2	85.4	87.0
62.5°	69.4	69.4	69.9	70.4	72.0	72.6	73.1	74.2	76.3	77.4	79.0
65°	62.4	62.4	63.0	63.5	64.6	65.1	65.6	66.7	68.3	69.4	71.0
67.5°	55.0	55.0	55.5	56.0	57.1	57.6	57.6	59.2	60.3	61.4	62.4
70°	48.0	48.0	48.6	48.6	49.1	49.6	50.2	51.2	51.8	53.4	53.9
72.5°	40.5	40.5	40.5	40.5	41.6	41.6	42.1	43.2	43.7	44.8	45.9
75°	32.5	32.5	33.1	33.1	33.6	34.1	34.7	35.2	36.3	36.8	37.3
77.5°	25.6	25.1	25.6	26.1	26.7	26.7	27.2	27.7	28.3	29.3	29.9
80°	18.1	18.1	18.1	18.7	19.2	19.2	19.7	20.3	20.8	21.9	22.4
82.5°	11.7	11.7	12.3	12.3	12.8	13.3	13.3	13.9	14.4	15.5	16.0
85°	6.4	6.4	6.4	6.9	7.5	7.5	8.0	8.5	9.6	10.1	11.2
87.5°	2.1	2.1	2.7	3.2	3.7	3.7	4.3	4.8	5.3	6.4	6.9
90°	0.5	0.5	0.5	1.1	1.1	1.6	1.6	2.1	2.7	3.2	3.7
92.5°	2.1	3.7	5.9	8.5	8.0	8.5	5.9	3.7	3.7	3.7	4.3
95°	6.4	9.6	15.5	24.5	32.0	36.3	40.0	43.7	51.2	51.8	49.6
97.5°	12.8	17.6	28.3	40.0	53.4	60.3	65.6	76.8	88.6	96.0	105.1
100°	21.3	28.3	42.1	58.2	73.6	82.7	91.2	107.2	121.6	134.4	148.3
102.5°	31.5	39.5	56.6	76.3	95.5	105.6	114.7	133.4	153.1	170.2	185.1
105°	42.1	51.2	71.5	93.9	115.8	127.5	138.7	159.0	179.8	198.5	216.1
107.5°	53.9	63.5	85.4	110.4	135.0	148.3	160.6	182.5	204.3	224.6	243.3
110°	65.1	75.8	98.7	125.9	153.7	167.0	179.3	203.3	226.2	247.6	267.3



TEST NUMBER: P395357

CATALOG NUMBER: I3-CL-20L93050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	76.8	88.0	111.0	140.9	169.1	183.0	195.8	221.4	245.4	267.3	287.0
115°	88.0	98.7	122.7	153.7	182.5	196.9	210.7	236.9	262.0	283.8	304.1
117.5°	98.7	108.8	133.4	164.3	194.2	208.6	222.5	249.7	274.8	297.7	317.5
120°	109.4	118.4	145.1	173.4	203.8	218.2	232.6	259.8	285.4	308.4	328.7
122.5°	119.0	127.5	153.7	181.4	211.3	226.2	240.1	267.8	294.0	316.9	336.7
125°	127.5	135.5	161.7	187.8	217.7	232.1	246.5	273.7	299.8	322.3	342.5
127.5°	136.1	144.1	167.5	194.2	221.9	236.9	250.8	278.0	303.6	326.5	346.3
130°	145.1	151.0	173.4	200.1	226.2	240.1	254.5	280.6	305.7	328.1	347.9
132.5°	152.6	157.9	179.3	204.9	229.4	242.8	255.6	281.7	306.8	328.1	347.3
135°	159.5	163.8	183.5	209.1	232.1	244.4	256.6	281.2	305.7	327.1	345.7
137.5°	165.9	170.2	187.3	212.3	234.2	244.9	256.6	279.6	303.0	324.4	342.0
140°	171.8	175.0	190.5	213.9	235.3	245.4	255.6	276.9	298.8	319.6	337.2
142.5°	177.7	180.3	193.1	215.0	235.8	245.4	255.0	273.7	294.0	314.2	331.9
145°	181.9	184.6	195.3	215.5	235.3	244.4	252.9	270.5	288.6	307.3	324.4
147.5°	186.7	188.9	197.4	214.5	233.7	242.2	250.2	266.2	282.8	299.8	315.9
150°	189.9	192.1	198.5	213.4	231.0	239.0	247.0	262.0	276.9	291.8	305.7
152.5°	193.1	194.7	200.1	211.8	227.8	235.3	242.8	257.2	271.0	284.4	296.6
155°	195.8	197.4	201.1	210.7	224.1	231.0	238.0	251.8	264.6	276.4	287.6
157.5°	198.5	199.5	202.2	209.1	219.8	226.2	232.6	244.9	256.6	268.4	277.4
160°	200.6	201.1	203.3	208.6	216.1	220.9	226.8	238.0	248.6	258.8	267.3
162.5°	202.7	202.7	204.3	207.5	212.9	216.1	220.3	230.0	239.6	248.6	256.6
165°	203.8	203.8	204.9	207.0	210.2	212.3	215.0	221.4	228.9	236.9	244.4
167.5°	204.9	204.9	205.4	206.5	208.6	209.7	210.7	215.0	219.8	225.7	231.6
170°	205.9	205.4	205.4	206.5	207.0	207.5	208.1	210.2	212.3	216.1	219.3
172.5°	205.9	205.4	205.4	205.9	205.9	205.9	205.9	206.5	207.0	209.1	210.2
175°	205.9	205.4	205.4	205.4	205.4	204.9	204.9	204.9	204.9	204.9	205.4
177.5°	205.9	205.4	204.9	204.9	204.3	204.3	203.8	203.8	203.3	203.3	203.3
180°	202.2	202.2	202.2	202.2	202.2	202.2	202.2	202.2	202.2	202.2	202.2



TEST NUMBER: P395357

CATALOG NUMBER: I3-CL-20L93050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	150.5	150.5	150.5	150.5	150.5	150.5	150.5	150.5	150.5	150.5
2.5°	151.0	151.0	150.5	150.5	149.9	149.9	149.4	148.9	148.3	148.3
5°	151.5	151.0	150.5	150.5	150.5	149.9	149.9	149.9	149.4	149.4
7.5°	151.5	151.5	151.5	151.0	151.0	151.0	151.0	151.0	150.5	150.5
10°	152.1	152.1	152.1	152.1	152.1	152.1	152.1	151.5	151.5	151.5
12.5°	152.1	152.1	152.1	152.6	152.6	152.6	152.6	152.6	152.6	152.6
15°	152.6	152.6	153.1	153.1	153.7	153.7	154.2	154.2	154.2	153.7
17.5°	152.1	152.6	153.1	153.7	154.2	154.2	154.7	154.7	154.7	154.7
20°	152.1	153.1	153.7	154.2	154.7	154.7	155.3	155.8	155.8	155.3
22.5°	151.5	152.6	153.1	154.2	154.7	154.7	155.8	155.8	155.8	155.8
25°	151.0	152.1	153.1	154.2	154.7	154.7	155.8	155.8	156.3	156.3
27.5°	149.9	151.0	152.6	153.7	154.2	154.7	155.3	155.8	155.8	155.8
30°	148.3	149.9	151.5	152.6	153.1	153.7	154.2	154.7	155.3	155.3
32.5°	146.2	147.8	149.4	151.0	151.5	152.1	153.1	153.7	153.7	153.7
35°	144.1	145.7	147.3	148.9	149.4	149.9	151.0	151.5	152.1	152.1
37.5°	140.9	142.5	144.1	145.7	146.2	147.3	148.3	148.9	148.9	148.9
40°	136.1	138.7	140.9	142.5	143.0	144.1	144.6	145.7	145.7	145.7
42.5°	131.8	133.9	135.5	137.7	138.2	139.8	140.9	141.4	141.9	141.9
45°	127.0	129.1	130.7	132.3	132.8	133.9	135.0	135.5	136.1	136.6
47.5°	122.2	123.8	125.4	127.0	127.5	128.6	129.6	130.2	130.7	130.7
50°	116.3	117.9	119.5	121.1	121.6	122.7	123.2	123.8	124.3	124.3
52.5°	109.9	111.5	113.1	114.7	115.2	115.8	116.8	117.4	117.9	117.9
55°	103.5	105.1	106.2	107.8	108.3	108.8	109.4	110.4	111.0	110.4
57.5°	96.0	97.6	98.7	100.3	100.8	101.4	101.9	102.4	103.0	103.0
60°	88.0	89.6	91.2	92.3	92.8	93.4	93.9	94.4	95.0	95.0
62.5°	80.0	81.6	82.7	84.3	84.8	84.8	85.4	85.9	86.4	86.4
65°	72.0	73.6	74.2	75.8	75.8	76.3	76.8	77.4	77.4	77.4
67.5°	63.5	65.1	65.6	66.7	66.7	67.2	67.8	68.3	68.3	68.3
70°	55.5	56.0	57.1	57.6	58.2	58.2	58.7	59.2	59.8	59.2
72.5°	47.0	47.5	48.6	49.1	49.1	49.6	49.6	50.2	50.7	50.7
75°	38.4	39.5	40.0	40.5	41.1	41.1	41.6	42.1	42.1	42.1
77.5°	30.4	31.5	32.0	32.5	33.1	33.1	33.6	33.6	34.1	33.6
80°	23.5	24.0	24.5	25.1	25.6	25.6	26.1	26.7	26.7	26.7
82.5°	17.1	17.6	18.7	19.2	19.2	19.2	20.3	20.3	20.8	20.3
85°	11.7	12.3	13.3	13.9	14.4	14.4	14.4	14.9	15.5	14.9
87.5°	7.5	8.5	9.1	9.6	9.6	9.6	10.1	10.7	10.7	10.7
90°	4.3	4.3	4.8	5.3	5.3	5.9	5.9	6.4	6.4	6.4
92.5°	4.3	4.8	4.8	4.8	5.3	5.3	5.3	5.9	5.9	5.9
95°	36.3	26.1	14.9	11.7	10.1	10.1	9.6	10.1	9.6	9.6
97.5°	109.9	119.0	123.2	129.1	132.3	131.8	129.6	131.8	130.2	131.8
100°	156.3	164.9	171.3	172.9	176.1	177.7	183.5	187.8	189.9	192.6
102.5°	194.2	204.3	211.8	216.1	219.3	221.4	228.4	234.8	238.0	240.1
105°	228.9	239.6	248.6	252.9	256.6	258.8	266.2	273.7	278.5	281.2
107.5°	256.6	268.9	278.5	284.9	288.6	292.4	301.4	308.9	314.8	317.5
110°	281.7	294.0	304.1	311.6	315.9	319.6	329.7	338.3	344.7	347.9



TEST NUMBER: P395357

CATALOG NUMBER: I3-CL-20L93050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	302.5	315.9	326.0	334.0	338.3	343.6	353.2	362.8	369.2	372.9
115°	319.6	333.5	344.1	352.7	357.5	362.3	373.5	383.1	389.5	392.1
117.5°	334.0	347.9	359.1	367.6	372.9	378.3	389.5	398.0	404.9	407.1
120°	345.7	359.6	370.8	380.4	385.7	390.5	401.2	410.3	416.7	418.3
122.5°	353.7	368.1	379.9	390.5	395.3	400.1	410.3	419.4	425.2	426.8
125°	359.6	374.5	386.3	397.5	402.3	407.1	416.7	425.8	430.6	432.7
127.5°	363.3	378.3	391.1	401.7	407.1	411.4	421.0	429.0	433.8	435.4
130°	364.4	379.9	392.7	403.9	408.7	413.0	422.0	430.0	434.3	435.4
132.5°	364.4	379.3	392.7	403.3	408.2	412.4	421.0	428.4	432.7	433.8
135°	362.3	376.7	390.0	400.7	405.5	409.8	418.3	424.7	429.0	429.5
137.5°	358.5	372.4	385.2	395.9	400.7	404.9	412.4	419.4	423.1	424.2
140°	353.7	366.5	379.3	389.5	394.3	398.0	405.5	411.4	415.1	416.2
142.5°	347.3	360.1	371.9	382.0	385.7	390.0	396.4	402.3	405.5	406.6
145°	340.4	352.7	363.3	372.4	376.7	380.4	386.3	391.6	394.8	395.9
147.5°	331.3	343.6	353.7	362.3	366.0	369.7	375.1	379.9	383.1	384.1
150°	320.1	331.3	342.0	350.0	353.7	357.5	362.8	367.1	370.3	370.8
152.5°	308.9	319.6	328.7	336.7	340.4	344.1	348.9	353.2	356.9	356.9
155°	298.2	307.3	315.9	322.8	326.0	329.2	334.0	337.7	340.9	340.9
157.5°	287.0	295.6	302.5	308.9	311.6	314.2	318.5	321.7	324.4	323.9
160°	276.4	282.8	289.2	294.5	297.2	299.3	302.5	305.2	307.8	307.3
162.5°	264.6	270.5	275.8	279.6	281.7	283.3	286.5	289.2	290.8	290.8
165°	251.3	256.6	261.4	265.2	267.3	268.4	271.0	272.6	274.2	274.2
167.5°	237.4	241.7	246.0	249.2	251.3	252.4	255.0	256.1	258.2	257.7
170°	223.5	226.8	230.0	232.6	233.7	234.8	236.9	238.0	239.0	239.0
172.5°	212.3	213.4	215.0	217.1	217.1	217.7	218.7	219.3	219.8	219.8
175°	205.9	206.5	206.5	206.5	206.5	206.5	207.0	206.5	207.0	206.5
177.5°	203.3	203.3	202.7	202.7	202.2	202.7	202.2	201.7	201.7	201.1
180°	202.2	202.2	202.2	202.2	202.2	202.2	202.2	202.2	202.2	202.2

(END OF REPORT)