

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: P395343

Luminaire Tested: **I3-CL-20L83050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395343  
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 (3500K)  
Description: CORELITE I3, CLEAR TOP COVER  
2000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 3000K/5000K CCT, 80 CRI LEDS, TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2159.8 lumens  
Efficiency: N/A  
Efficacy: 133.3 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

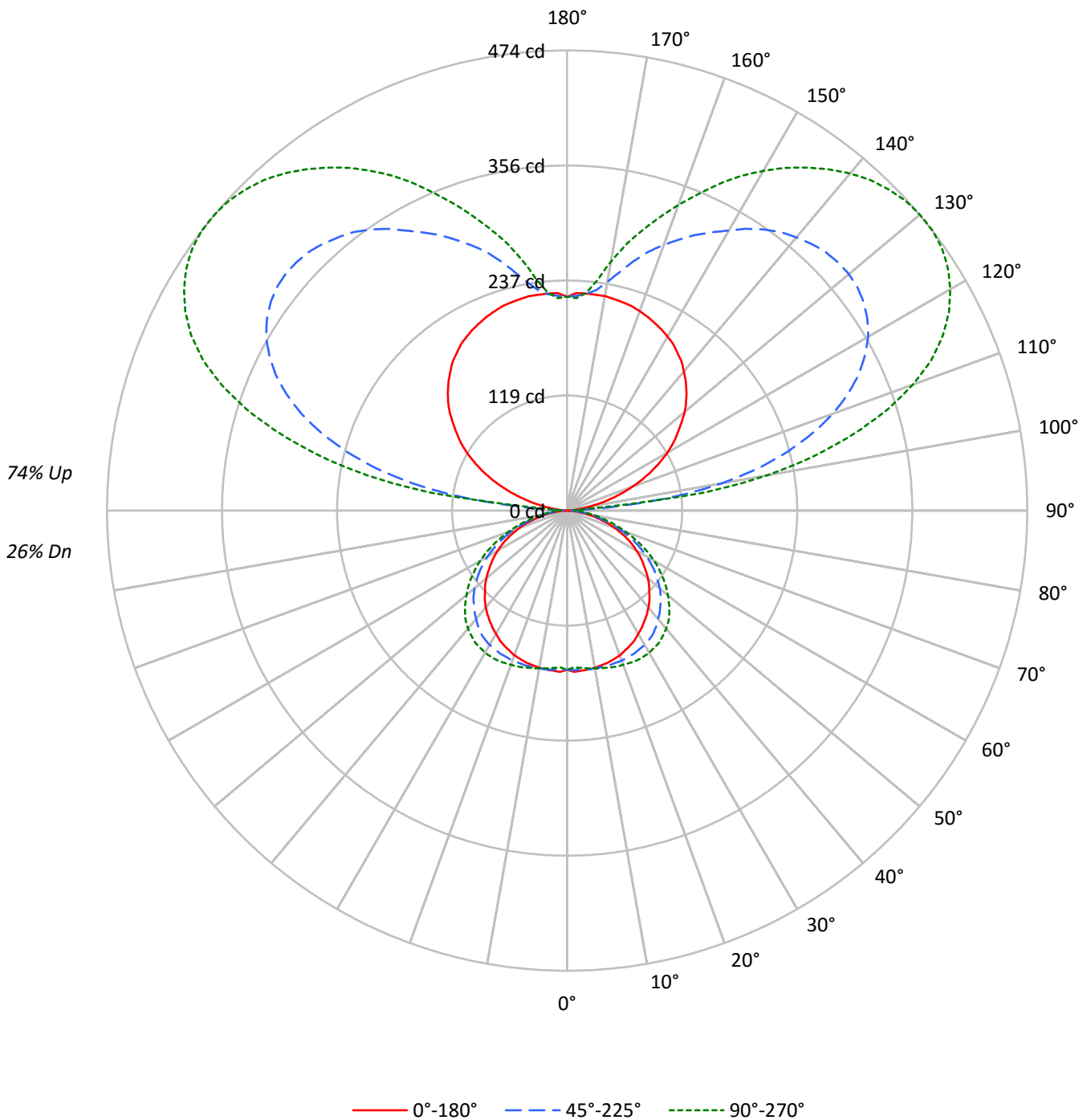
Input Watts (W): 16.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	901	901	901
5°	910	887	872
10°	911	880	870
15°	913	877	874
20°	914	877	882
25°	912	878	894
30°	908	879	900
35°	905	875	901
40°	902	856	890
45°	892	835	867
50°	885	808	829
55°	866	767	781
60°	845	713	721
65°	810	640	639
70°	753	545	541
75°	651	434	434
80°	505	308	319
85°	297	191	214



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15.7	0.7
10°-20°	46.6	2.2
20°-30°	74.7	3.5
30°-40°	95.5	4.4
40°-50°	104.2	4.8
50°-60°	97.6	4.5
60°-70°	75.7	3.5
70°-80°	43.4	2.0
80°-90°	13.9	0.6
90°-100°	55.7	2.6
100°-110°	216.5	10.0
110°-120°	294.8	13.6
120°-130°	306.0	14.2
130°-140°	271.5	12.6
140°-150°	210.6	9.8
150°-160°	140.6	6.5
160°-170°	74.9	3.5
170°-180°	21.9	1.0
0°-30°	137.0	6.3
0°-40°	232.5	10.8
0°-60°	434.3	20.1
0°-90°	567.3	26.3
90°-120°	567.1	26.3
90°-150°	1355.1	62.7
90°-180°	1593.0	73.8
0°-180°	2159.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	164	164	164	164	164	
5°	166	164	164	164	163	16
15°	162	162	165	167	167	46
25°	153	155	163	168	170	71
35°	139	142	155	163	166	87
45°	120	125	136	145	149	93
55°	96	101	110	118	120	86
65°	68	71	77	82	84	67
75°	36	37	41	45	46	38
85°	7	8	12	16	16	8
90°	1	2	4	6	7	1
95°	7	40	54	11	10	9
105°	46	139	235	280	306	49
115°	96	214	331	389	427	95
125°	139	253	373	438	471	124
135°	174	266	377	442	468	134
145°	198	266	353	410	431	124
155°	213	252	313	355	371	99
165°	222	231	266	291	299	63
175°	224	223	224	225	225	21
180°	220	220	220	220	220	



TEST NUMBER: P395343

CATALOG NUMBER: I3-CL-20L83050-1D-UNV-W2A-W-4 (3500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	163.9	163.9	163.9	163.9	163.9	163.9	163.9	163.9	163.9	163.9	163.9
2.5°	166.2	165.6	165.6	164.5	164.5	163.9	163.9	163.9	163.9	163.9	164.5
5°	165.6	165.6	165.1	164.5	164.5	163.9	163.9	163.9	163.9	163.9	164.5
7.5°	165.1	165.1	164.5	163.9	163.9	163.9	163.9	163.9	163.9	163.9	165.1
10°	164.5	164.5	163.9	163.3	163.3	163.3	163.3	163.9	163.9	163.9	165.1
12.5°	163.3	162.7	162.7	162.2	162.2	162.2	162.7	162.7	163.3	163.9	165.1
15°	162.2	162.2	161.6	161.0	161.6	161.6	161.6	162.2	162.7	163.3	165.1
17.5°	160.4	160.4	159.8	159.8	159.8	160.4	160.4	161.0	162.2	163.3	164.5
20°	158.7	158.1	158.1	158.1	158.7	158.7	159.2	160.4	161.0	162.7	164.5
22.5°	155.8	156.3	155.8	155.8	156.3	156.9	157.5	158.7	159.8	161.6	163.3
25°	153.4	153.4	153.4	153.4	154.6	154.6	155.8	156.9	158.7	160.4	162.7
27.5°	150.5	150.5	150.5	151.1	151.7	152.3	152.9	154.6	156.3	158.7	161.0
30°	146.5	146.5	146.5	146.5	148.2	148.8	149.9	152.3	154.0	156.9	159.8
32.5°	143.0	143.0	143.0	143.6	144.7	145.3	146.5	149.4	151.7	154.6	157.5
35°	138.9	138.9	139.5	139.5	141.2	141.8	143.0	145.3	147.6	151.1	154.6
37.5°	134.8	134.8	135.4	136.0	137.2	138.3	139.5	141.8	144.1	147.0	150.5
40°	130.2	130.2	130.8	131.3	133.1	134.3	135.4	137.7	140.1	143.0	145.9
42.5°	125.5	125.5	126.1	126.7	128.4	129.6	130.8	133.7	136.0	138.9	141.2
45°	119.7	120.3	120.9	122.0	123.8	125.0	126.1	128.4	131.3	133.7	136.0
47.5°	114.5	115.1	115.7	116.8	118.6	119.7	120.9	123.2	125.5	127.9	130.8
50°	108.7	109.3	109.8	111.0	112.8	113.9	115.1	117.4	119.7	121.5	124.4
52.5°	102.3	102.9	103.5	104.6	106.9	107.5	108.7	111.0	112.8	115.1	117.4
55°	95.9	96.5	97.1	98.2	100.0	101.1	101.7	104.0	105.8	108.1	110.4
57.5°	89.5	90.1	90.7	91.8	93.0	94.2	94.7	96.5	98.8	100.5	102.9
60°	82.5	83.1	83.7	84.3	86.0	86.6	87.2	88.9	90.7	93.0	94.7
62.5°	75.6	75.6	76.1	76.7	78.5	79.0	79.6	80.8	83.1	84.3	86.0
65°	68.0	68.0	68.6	69.2	70.3	70.9	71.5	72.6	74.4	75.6	77.3
67.5°	59.9	59.9	60.4	61.0	62.2	62.8	62.8	64.5	65.7	66.8	68.0
70°	52.3	52.3	52.9	52.9	53.5	54.1	54.6	55.8	56.4	58.1	58.7
72.5°	44.2	44.2	44.2	44.2	45.3	45.3	45.9	47.1	47.7	48.8	50.0
75°	35.5	35.5	36.0	36.0	36.6	37.2	37.8	38.4	39.5	40.1	40.7
77.5°	27.9	27.3	27.9	28.5	29.1	29.1	29.6	30.2	30.8	32.0	32.5
80°	19.8	19.8	19.8	20.3	20.9	20.9	21.5	22.1	22.7	23.8	24.4
82.5°	12.8	12.8	13.4	13.4	13.9	14.5	14.5	15.1	15.7	16.9	17.4
85°	7.0	7.0	7.0	7.6	8.1	8.1	8.7	9.3	10.5	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	7.6
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	10.5	16.9	26.7	34.9	39.5	43.6	47.7	55.8	56.4	54.1
97.5°	13.9	19.2	30.8	43.6	58.1	65.7	71.5	83.7	96.5	104.6	114.5
100°	23.2	30.8	45.9	63.3	80.2	90.1	99.4	116.8	132.5	146.5	161.6
102.5°	34.3	43.0	61.6	83.1	104.0	115.1	125.0	145.3	166.8	185.4	201.7
105°	45.9	55.8	77.9	102.3	126.1	138.9	151.1	173.2	195.9	216.2	235.4
107.5°	58.7	69.2	93.0	120.3	147.0	161.6	174.9	198.8	222.6	244.7	265.0
110°	70.9	82.5	107.5	137.2	167.4	181.9	195.3	221.4	246.4	269.7	291.2



TEST NUMBER: P395343

CATALOG NUMBER: I3-CL-20L83050-1D-UNV-W2A-W-4 (3500K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	83.7	95.9	120.9	153.4	184.2	199.3	213.3	241.2	267.3	291.2	312.7
115°	95.9	107.5	133.7	167.4	198.8	214.5	229.6	258.0	285.4	309.2	331.3
117.5°	107.5	118.6	145.3	179.0	211.6	227.2	242.4	272.0	299.3	324.3	345.8
120°	119.1	129.0	158.1	188.9	222.0	237.7	253.4	283.0	310.9	335.9	358.0
122.5°	129.6	138.9	167.4	197.6	230.2	246.4	261.5	291.8	320.2	345.2	366.7
125°	138.9	147.6	176.1	204.6	237.1	252.8	268.5	298.1	326.6	351.0	373.1
127.5°	148.2	156.9	182.5	211.6	241.8	258.0	273.2	302.8	330.7	355.7	377.2
130°	158.1	164.5	188.9	217.9	246.4	261.5	277.2	305.7	333.0	357.4	378.9
132.5°	166.2	172.0	195.3	223.2	249.9	264.4	278.4	306.9	334.2	357.4	378.4
135°	173.8	178.4	199.9	227.8	252.8	266.2	279.6	306.3	333.0	356.3	376.6
137.5°	180.7	185.4	204.0	231.3	255.1	266.8	279.6	304.5	330.1	353.4	372.5
140°	187.1	190.6	207.5	233.1	256.3	267.3	278.4	301.6	325.5	348.1	367.3
142.5°	193.5	196.4	210.4	234.2	256.9	267.3	277.8	298.1	320.2	342.3	361.5
145°	198.2	201.1	212.7	234.8	256.3	266.2	275.5	294.7	314.4	334.8	353.4
147.5°	203.4	205.7	215.0	233.6	254.6	263.9	272.6	290.0	308.0	326.6	344.1
150°	206.9	209.2	216.2	232.5	251.7	260.4	269.1	285.4	301.6	317.9	333.0
152.5°	210.4	212.1	217.9	230.7	248.2	256.3	264.4	280.1	295.2	309.8	323.1
155°	213.3	215.0	219.1	229.6	244.1	251.7	259.2	274.3	288.3	301.1	313.3
157.5°	216.2	217.4	220.3	227.8	239.4	246.4	253.4	266.8	279.6	292.3	302.2
160°	218.5	219.1	221.4	227.2	235.4	240.6	247.0	259.2	270.8	281.9	291.2
162.5°	220.9	220.9	222.6	226.1	231.9	235.4	240.0	250.5	261.0	270.8	279.6
165°	222.0	222.0	223.2	225.5	229.0	231.3	234.2	241.2	249.3	258.0	266.2
167.5°	223.2	223.2	223.8	224.9	227.2	228.4	229.6	234.2	239.4	245.8	252.2
170°	224.3	223.8	223.8	224.9	225.5	226.1	226.7	229.0	231.3	235.4	238.9
172.5°	224.3	223.8	223.8	224.3	224.3	224.3	224.3	224.9	225.5	227.8	229.0
175°	224.3	223.8	223.8	223.8	223.8	223.2	223.2	223.2	223.2	223.2	223.8
177.5°	224.3	223.8	223.2	223.2	222.6	222.6	222.0	222.0	221.4	221.4	221.4
180°	220.3	220.3	220.3	220.3	220.3	220.3	220.3	220.3	220.3	220.3	220.3



TEST NUMBER: P395343

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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	163.9	163.9	163.9	163.9	163.9	163.9	163.9	163.9	163.9	163.9
2.5°	164.5	164.5	163.9	163.9	163.3	163.3	162.7	162.2	161.6	161.6
5°	165.1	164.5	163.9	163.9	163.9	163.3	163.3	163.3	162.7	162.7
7.5°	165.1	165.1	165.1	164.5	164.5	164.5	164.5	164.5	163.9	163.9
10°	165.6	165.6	165.6	165.6	165.6	165.6	165.6	165.1	165.1	165.1
12.5°	165.6	165.6	165.6	166.2	166.2	166.2	166.2	166.2	166.2	166.2
15°	166.2	166.2	166.8	166.8	167.4	167.4	168.0	168.0	168.0	167.4
17.5°	165.6	166.2	166.8	167.4	168.0	168.0	168.5	168.5	168.5	168.5
20°	165.6	166.8	167.4	168.0	168.5	168.5	169.1	169.7	169.7	169.1
22.5°	165.1	166.2	166.8	168.0	168.5	168.5	169.7	169.7	169.7	169.7
25°	164.5	165.6	166.8	168.0	168.5	168.5	169.7	169.7	170.3	170.3
27.5°	163.3	164.5	166.2	167.4	168.0	168.5	169.1	169.7	169.7	169.7
30°	161.6	163.3	165.1	166.2	166.8	167.4	168.0	168.5	169.1	169.1
32.5°	159.2	161.0	162.7	164.5	165.1	165.6	166.8	167.4	167.4	167.4
35°	156.9	158.7	160.4	162.2	162.7	163.3	164.5	165.1	165.6	165.6
37.5°	153.4	155.2	156.9	158.7	159.2	160.4	161.6	162.2	162.2	162.2
40°	148.2	151.1	153.4	155.2	155.8	156.9	157.5	158.7	158.7	158.7
42.5°	143.6	145.9	147.6	149.9	150.5	152.3	153.4	154.0	154.6	154.6
45°	138.3	140.6	142.4	144.1	144.7	145.9	147.0	147.6	148.2	148.8
47.5°	133.1	134.8	136.6	138.3	138.9	140.1	141.2	141.8	142.4	142.4
50°	126.7	128.4	130.2	131.9	132.5	133.7	134.3	134.8	135.4	135.4
52.5°	119.7	121.5	123.2	125.0	125.5	126.1	127.3	127.9	128.4	128.4
55°	112.8	114.5	115.7	117.4	118.0	118.6	119.1	120.3	120.9	120.3
57.5°	104.6	106.4	107.5	109.3	109.8	110.4	111.0	111.6	112.2	112.2
60°	95.9	97.6	99.4	100.5	101.1	101.7	102.3	102.9	103.5	103.5
62.5°	87.2	88.9	90.1	91.8	92.4	92.4	93.0	93.6	94.2	94.2
65°	78.5	80.2	80.8	82.5	82.5	83.1	83.7	84.3	84.3	84.3
67.5°	69.2	70.9	71.5	72.6	72.6	73.2	73.8	74.4	74.4	74.4
70°	60.4	61.0	62.2	62.8	63.3	63.3	63.9	64.5	65.1	64.5
72.5°	51.1	51.7	52.9	53.5	53.5	54.1	54.1	54.6	55.2	55.2
75°	41.8	43.0	43.6	44.2	44.8	44.8	45.3	45.9	45.9	45.9
77.5°	33.1	34.3	34.9	35.5	36.0	36.0	36.6	36.6	37.2	36.6
80°	25.6	26.2	26.7	27.3	27.9	27.9	28.5	29.1	29.1	29.1
82.5°	18.6	19.2	20.3	20.9	20.9	20.9	22.1	22.1	22.7	22.1
85°	12.8	13.4	14.5	15.1	15.7	15.7	15.7	16.3	16.9	16.3
87.5°	8.1	9.3	9.9	10.5	10.5	10.5	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°	39.5	28.5	16.3	12.8	11.0	11.0	10.5	11.0	10.5	10.5
97.5°	119.7	129.6	134.3	140.6	144.1	143.6	141.2	143.6	141.8	143.6
100°	170.3	179.6	186.6	188.3	191.8	193.5	199.9	204.6	206.9	209.8
102.5°	211.6	222.6	230.7	235.4	238.9	241.2	248.7	255.7	259.2	261.5
105°	249.3	261.0	270.8	275.5	279.6	281.9	290.0	298.1	303.4	306.3
107.5°	279.6	292.9	303.4	310.4	314.4	318.5	328.4	336.5	342.9	345.8
110°	306.9	320.2	331.3	339.4	344.1	348.1	359.2	368.5	375.4	378.9





TEST NUMBER: P395343

CATALOG NUMBER: I3-CL-20L83050-1D-UNV-W2A-W-4 (3500K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	329.5	344.1	355.1	363.8	368.5	374.3	384.7	395.2	402.2	406.3
115°	348.1	363.2	374.9	384.2	389.4	394.6	406.8	417.3	424.3	427.2
117.5°	363.8	378.9	391.1	400.4	406.3	412.1	424.3	433.6	441.1	443.4
120°	376.6	391.7	403.9	414.4	420.2	425.4	437.1	446.9	453.9	455.7
122.5°	385.3	401.0	413.8	425.4	430.7	435.9	446.9	456.8	463.2	465.0
125°	391.7	408.0	420.8	433.0	438.2	443.4	453.9	463.8	469.0	471.3
127.5°	395.8	412.1	426.0	437.6	443.4	448.1	458.6	467.3	472.5	474.2
130°	397.0	413.8	427.8	440.0	445.2	449.8	459.7	468.4	473.1	474.2
132.5°	397.0	413.2	427.8	439.4	444.6	449.3	458.6	466.7	471.3	472.5
135°	394.6	410.3	424.8	436.5	441.7	446.4	455.7	462.6	467.3	467.9
137.5°	390.6	405.7	419.6	431.2	436.5	441.1	449.3	456.8	460.9	462.0
140°	385.3	399.3	413.2	424.3	429.5	433.6	441.7	448.1	452.2	453.3
142.5°	378.4	392.3	405.1	416.1	420.2	424.8	431.8	438.2	441.7	442.9
145°	370.8	384.2	395.8	405.7	410.3	414.4	420.8	426.6	430.1	431.2
147.5°	360.9	374.3	385.3	394.6	398.7	402.8	408.6	413.8	417.3	418.5
150°	348.7	360.9	372.5	381.3	385.3	389.4	395.2	399.9	403.3	403.9
152.5°	336.5	348.1	358.0	366.7	370.8	374.9	380.1	384.7	388.8	388.8
155°	324.9	334.8	344.1	351.6	355.1	358.6	363.8	367.9	371.4	371.4
157.5°	312.7	322.0	329.5	336.5	339.4	342.3	347.0	350.5	353.4	352.8
160°	301.1	308.0	315.0	320.8	323.7	326.0	329.5	332.4	335.3	334.8
162.5°	288.3	294.7	300.5	304.5	306.9	308.6	312.1	315.0	316.7	316.7
165°	273.7	279.6	284.8	288.9	291.2	292.3	295.2	297.0	298.7	298.7
167.5°	258.6	263.3	267.9	271.4	273.7	274.9	277.8	279.0	281.3	280.7
170°	243.5	247.0	250.5	253.4	254.6	255.7	258.0	259.2	260.4	260.4
172.5°	231.3	232.5	234.2	236.5	236.5	237.1	238.3	238.9	239.4	239.4
175°	224.3	224.9	224.9	224.9	224.9	224.9	225.5	224.9	225.5	224.9
177.5°	221.4	221.4	220.9	220.9	220.3	220.9	220.3	219.7	219.7	219.1
180°	220.3	220.3	220.3	220.3	220.3	220.3	220.3	220.3	220.3	220.3

(END OF REPORT)