

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: P395342

Luminaire Tested: **I3-CL-20L83050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395342  
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 (3000K)  
Description: CORELITE I3, CLEAR TOP COVER  
2000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 3000K/5000K CCT, 80 CRI LEDS, TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2043.1 lumens  
Efficiency: N/A  
Efficacy: 126.1 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

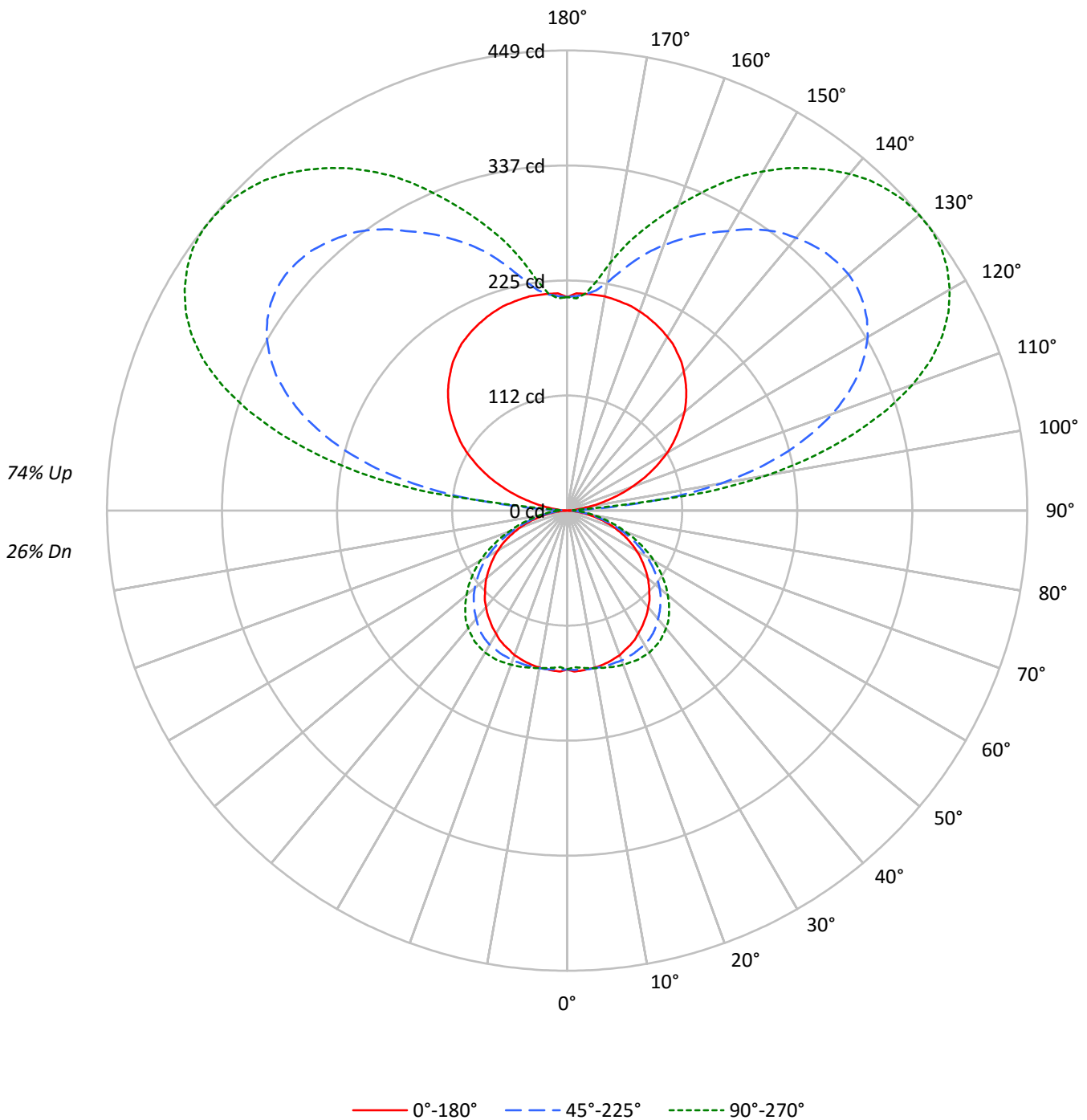
Input Watts (W): 16.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	852	852	852
5°	861	839	825
10°	862	832	823
15°	863	829	827
20°	865	830	835
25°	863	830	846
30°	859	832	852
35°	856	827	852
40°	854	810	842
45°	845	790	820
50°	837	764	784
55°	819	726	739
60°	800	674	682
65°	766	606	604
70°	712	515	512
75°	614	410	411
80°	477	292	301
85°	280	180	202



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14.8	0.7
10°-20°	44.1	2.2
20°-30°	70.7	3.5
30°-40°	90.4	4.4
40°-50°	98.5	4.8
50°-60°	92.3	4.5
60°-70°	71.6	3.5
70°-80°	41.0	2.0
80°-90°	13.1	0.6
90°-100°	52.7	2.6
100°-110°	204.8	10.0
110°-120°	278.9	13.7
120°-130°	289.5	14.2
130°-140°	256.8	12.6
140°-150°	199.2	9.8
150°-160°	133.0	6.5
160°-170°	70.9	3.5
170°-180°	20.7	1.0
0°-30°	129.6	6.3
0°-40°	219.9	10.8
0°-60°	410.8	20.1
0°-90°	536.6	26.3
90°-120°	536.4	26.3
90°-150°	1282.0	62.7
90°-180°	1507.0	73.8
0°-180°	2043.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	155	155	155	155	155	
5°	157	155	156	155	154	15
15°	153	153	156	158	158	43
25°	145	146	154	159	161	67
35°	131	134	146	154	157	82
45°	113	118	129	137	141	88
55°	91	96	104	112	114	81
65°	64	67	73	78	80	63
75°	34	35	38	42	43	36
85°	7	8	12	15	15	8
90°	0	2	4	6	7	1
95°	7	37	51	10	10	9
105°	43	131	223	264	290	46
115°	91	203	313	368	404	89
125°	131	239	353	415	446	118
135°	164	252	356	418	443	127
145°	188	252	334	388	408	117
155°	202	238	296	336	351	93
165°	210	219	252	276	283	59
175°	212	211	212	213	213	20
180°	208	208	208	208	208	



TEST NUMBER: P395342

CATALOG NUMBER: I3-CL-20L83050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0
2.5°	157.2	156.7	156.7	155.6	155.6	155.0	155.0	155.0	155.0	155.0	155.6
5°	156.7	156.7	156.1	155.6	155.6	155.0	155.0	155.0	155.0	155.0	155.6
7.5°	156.1	156.1	155.6	155.0	155.0	155.0	155.0	155.0	155.0	155.0	156.1
10°	155.6	155.6	155.0	154.5	154.5	154.5	154.5	155.0	155.0	155.0	156.1
12.5°	154.5	153.9	153.9	153.4	153.4	153.4	153.9	153.9	154.5	155.0	156.1
15°	153.4	153.4	152.8	152.3	152.8	152.8	152.8	153.4	153.9	154.5	156.1
17.5°	151.7	151.7	151.2	151.2	151.2	151.7	151.7	152.3	153.4	154.5	155.6
20°	150.1	149.5	149.5	149.5	150.1	150.1	150.6	151.7	152.3	153.9	155.6
22.5°	147.3	147.9	147.3	147.3	147.9	148.4	149.0	150.1	151.2	152.8	154.5
25°	145.1	145.1	145.1	145.1	146.2	146.2	147.3	148.4	150.1	151.7	153.9
27.5°	142.4	142.4	142.4	142.9	143.5	144.0	144.6	146.2	147.9	150.1	152.3
30°	138.6	138.6	138.6	138.6	140.2	140.7	141.8	144.0	145.7	148.4	151.2
32.5°	135.3	135.3	135.3	135.8	136.9	137.5	138.6	141.3	143.5	146.2	149.0
35°	131.4	131.4	132.0	132.0	133.6	134.2	135.3	137.5	139.7	142.9	146.2
37.5°	127.6	127.6	128.1	128.7	129.8	130.9	132.0	134.2	136.4	139.1	142.4
40°	123.2	123.2	123.7	124.3	125.9	127.0	128.1	130.3	132.5	135.3	138.0
42.5°	118.8	118.8	119.3	119.9	121.5	122.6	123.7	126.5	128.7	131.4	133.6
45°	113.3	113.8	114.4	115.5	117.1	118.2	119.3	121.5	124.3	126.5	128.7
47.5°	108.3	108.9	109.4	110.5	112.2	113.3	114.4	116.6	118.8	121.0	123.7
50°	102.8	103.4	103.9	105.0	106.7	107.8	108.9	111.1	113.3	114.9	117.7
52.5°	96.8	97.3	97.9	99.0	101.2	101.7	102.8	105.0	106.7	108.9	111.1
55°	90.7	91.3	91.8	92.9	94.6	95.7	96.2	98.4	100.1	102.3	104.5
57.5°	84.7	85.2	85.8	86.9	88.0	89.1	89.6	91.3	93.5	95.1	97.3
60°	78.1	78.6	79.2	79.7	81.4	81.9	82.5	84.1	85.8	88.0	89.6
62.5°	71.5	71.5	72.0	72.6	74.2	74.8	75.3	76.4	78.6	79.7	81.4
65°	64.3	64.3	64.9	65.4	66.5	67.1	67.6	68.7	70.4	71.5	73.1
67.5°	56.6	56.6	57.2	57.7	58.8	59.4	59.4	61.0	62.1	63.2	64.3
70°	49.5	49.5	50.0	50.0	50.6	51.1	51.7	52.8	53.3	55.0	55.5
72.5°	41.8	41.8	41.8	41.8	42.9	42.9	43.4	44.5	45.1	46.2	47.3
75°	33.5	33.5	34.1	34.1	34.6	35.2	35.7	36.3	37.4	37.9	38.5
77.5°	26.4	25.8	26.4	26.9	27.5	27.5	28.0	28.6	29.1	30.2	30.8
80°	18.7	18.7	18.7	19.2	19.8	19.8	20.3	20.9	21.4	22.5	23.1
82.5°	12.1	12.1	12.6	12.6	13.2	13.7	13.7	14.3	14.8	15.9	16.5
85°	6.6	6.6	6.6	7.1	7.7	7.7	8.2	8.8	9.9	10.4	11.5
87.5°	2.2	2.2	2.7	3.3	3.8	3.8	4.4	4.9	5.5	6.6	7.1
90°	0.5	0.5	0.5	1.1	1.1	1.6	1.6	2.2	2.7	3.3	3.8
92.5°	2.2	3.8	6.0	8.8	8.2	8.8	6.0	3.8	3.8	3.8	4.4
95°	6.6	9.9	15.9	25.3	33.0	37.4	41.2	45.1	52.8	53.3	51.1
97.5°	13.2	18.1	29.1	41.2	55.0	62.1	67.6	79.2	91.3	99.0	108.3
100°	22.0	29.1	43.4	59.9	75.9	85.2	94.0	110.5	125.4	138.6	152.8
102.5°	32.4	40.7	58.3	78.6	98.4	108.9	118.2	137.5	157.8	175.4	190.8
105°	43.4	52.8	73.7	96.8	119.3	131.4	142.9	163.8	185.3	204.5	222.7
107.5°	55.5	65.4	88.0	113.8	139.1	152.8	165.5	188.0	210.6	231.5	250.7
110°	67.1	78.1	101.7	129.8	158.3	172.1	184.7	209.5	233.1	255.1	275.5



TEST NUMBER: P395342

CATALOG NUMBER: I3-CL-20L83050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	79.2	90.7	114.4	145.1	174.3	188.6	201.8	228.2	252.9	275.5	295.8
115°	90.7	101.7	126.5	158.3	188.0	202.9	217.2	244.1	270.0	292.5	313.4
117.5°	101.7	112.2	137.5	169.3	200.1	215.0	229.3	257.3	283.1	306.8	327.1
120°	112.7	122.1	149.5	178.7	210.0	224.9	239.7	267.8	294.1	317.8	338.7
122.5°	122.6	131.4	158.3	186.9	217.7	233.1	247.4	276.0	302.9	326.6	346.9
125°	131.4	139.7	166.6	193.5	224.3	239.2	254.0	282.0	309.0	332.1	353.0
127.5°	140.2	148.4	172.6	200.1	228.7	244.1	258.4	286.4	312.8	336.5	356.8
130°	149.5	155.6	178.7	206.2	233.1	247.4	262.3	289.2	315.0	338.1	358.5
132.5°	157.2	162.7	184.7	211.1	236.4	250.2	263.4	290.3	316.1	338.1	357.9
135°	164.4	168.8	189.1	215.5	239.2	251.8	264.5	289.7	315.0	337.0	356.3
137.5°	171.0	175.4	193.0	218.8	241.4	252.4	264.5	288.1	312.3	334.3	352.4
140°	177.0	180.3	196.3	220.5	242.5	252.9	263.4	285.3	307.9	329.3	347.5
142.5°	183.1	185.8	199.0	221.6	243.0	252.9	262.8	282.0	302.9	323.8	342.0
145°	187.5	190.2	201.2	222.1	242.5	251.8	260.6	278.8	297.4	316.7	334.3
147.5°	192.4	194.6	203.4	221.0	240.8	249.6	257.9	274.4	291.4	309.0	325.5
150°	195.7	197.9	204.5	219.9	238.1	246.3	254.6	270.0	285.3	300.7	315.0
152.5°	199.0	200.7	206.2	218.3	234.8	242.5	250.2	265.0	279.3	293.0	305.7
155°	201.8	203.4	207.3	217.2	230.9	238.1	245.2	259.5	272.7	284.8	296.3
157.5°	204.5	205.6	208.4	215.5	226.5	233.1	239.7	252.4	264.5	276.6	285.9
160°	206.7	207.3	209.5	215.0	222.7	227.6	233.7	245.2	256.2	266.7	275.5
162.5°	208.9	208.9	210.6	213.9	219.4	222.7	227.1	237.0	246.9	256.2	264.5
165°	210.0	210.0	211.1	213.3	216.6	218.8	221.6	228.2	235.9	244.1	251.8
167.5°	211.1	211.1	211.7	212.8	215.0	216.1	217.2	221.6	226.5	232.6	238.6
170°	212.2	211.7	211.7	212.8	213.3	213.9	214.4	216.6	218.8	222.7	226.0
172.5°	212.2	211.7	211.7	212.2	212.2	212.2	212.2	212.8	213.3	215.5	216.6
175°	212.2	211.7	211.7	211.7	211.7	211.1	211.1	211.1	211.1	211.1	211.7
177.5°	212.2	211.7	211.1	211.1	210.6	210.6	210.0	210.0	209.5	209.5	209.5
180°	208.4	208.4	208.4	208.4	208.4	208.4	208.4	208.4	208.4	208.4	208.4



TEST NUMBER: P395342

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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0
2.5°	155.6	155.6	155.0	155.0	154.5	154.5	153.9	153.4	152.8	152.8
5°	156.1	155.6	155.0	155.0	155.0	154.5	154.5	154.5	153.9	153.9
7.5°	156.1	156.1	156.1	155.6	155.6	155.6	155.6	155.6	155.0	155.0
10°	156.7	156.7	156.7	156.7	156.7	156.7	156.7	156.1	156.1	156.1
12.5°	156.7	156.7	156.7	157.2	157.2	157.2	157.2	157.2	157.2	157.2
15°	157.2	157.2	157.8	157.8	158.3	158.3	158.9	158.9	158.9	158.3
17.5°	156.7	157.2	157.8	158.3	158.9	158.9	159.4	159.4	159.4	159.4
20°	156.7	157.8	158.3	158.9	159.4	159.4	160.0	160.5	160.5	160.0
22.5°	156.1	157.2	157.8	158.9	159.4	159.4	160.5	160.5	160.5	160.5
25°	155.6	156.7	157.8	158.9	159.4	159.4	160.5	160.5	161.1	161.1
27.5°	154.5	155.6	157.2	158.3	158.9	159.4	160.0	160.5	160.5	160.5
30°	152.8	154.5	156.1	157.2	157.8	158.3	158.9	159.4	160.0	160.0
32.5°	150.6	152.3	153.9	155.6	156.1	156.7	157.8	158.3	158.3	158.3
35°	148.4	150.1	151.7	153.4	153.9	154.5	155.6	156.1	156.7	156.7
37.5°	145.1	146.8	148.4	150.1	150.6	151.7	152.8	153.4	153.4	153.4
40°	140.2	142.9	145.1	146.8	147.3	148.4	149.0	150.1	150.1	150.1
42.5°	135.8	138.0	139.7	141.8	142.4	144.0	145.1	145.7	146.2	146.2
45°	130.9	133.1	134.7	136.4	136.9	138.0	139.1	139.7	140.2	140.7
47.5°	125.9	127.6	129.2	130.9	131.4	132.5	133.6	134.2	134.7	134.7
50°	119.9	121.5	123.2	124.8	125.4	126.5	127.0	127.6	128.1	128.1
52.5°	113.3	114.9	116.6	118.2	118.8	119.3	120.4	121.0	121.5	121.5
55°	106.7	108.3	109.4	111.1	111.6	112.2	112.7	113.8	114.4	113.8
57.5°	99.0	100.6	101.7	103.4	103.9	104.5	105.0	105.6	106.1	106.1
60°	90.7	92.4	94.0	95.1	95.7	96.2	96.8	97.3	97.9	97.9
62.5°	82.5	84.1	85.2	86.9	87.4	87.4	88.0	88.5	89.1	89.1
65°	74.2	75.9	76.4	78.1	78.1	78.6	79.2	79.7	79.7	79.7
67.5°	65.4	67.1	67.6	68.7	68.7	69.3	69.8	70.4	70.4	70.4
70°	57.2	57.7	58.8	59.4	59.9	59.9	60.5	61.0	61.6	61.0
72.5°	48.4	48.9	50.0	50.6	50.6	51.1	51.1	51.7	52.2	52.2
75°	39.6	40.7	41.2	41.8	42.3	42.3	42.9	43.4	43.4	43.4
77.5°	31.3	32.4	33.0	33.5	34.1	34.1	34.6	34.6	35.2	34.6
80°	24.2	24.7	25.3	25.8	26.4	26.4	26.9	27.5	27.5	27.5
82.5°	17.6	18.1	19.2	19.8	19.8	19.8	20.9	20.9	21.4	20.9
85°	12.1	12.6	13.7	14.3	14.8	14.8	14.8	15.4	15.9	15.4
87.5°	7.7	8.8	9.3	9.9	9.9	9.9	10.4	11.0	11.0	11.0
90°	4.4	4.4	4.9	5.5	5.5	6.0	6.0	6.6	6.6	6.6
92.5°	4.4	4.9	4.9	4.9	5.5	5.5	5.5	6.0	6.0	6.0
95°	37.4	26.9	15.4	12.1	10.4	10.4	9.9	10.4	9.9	9.9
97.5°	113.3	122.6	127.0	133.1	136.4	135.8	133.6	135.8	134.2	135.8
100°	161.1	169.9	176.5	178.1	181.4	183.1	189.1	193.5	195.7	198.5
102.5°	200.1	210.6	218.3	222.7	226.0	228.2	235.3	241.9	245.2	247.4
105°	235.9	246.9	256.2	260.6	264.5	266.7	274.4	282.0	287.0	289.7
107.5°	264.5	277.1	287.0	293.6	297.4	301.3	310.6	318.3	324.4	327.1
110°	290.3	302.9	313.4	321.1	325.5	329.3	339.8	348.6	355.2	358.5





TEST NUMBER: P395342

CATALOG NUMBER: I3-CL-20L83050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	311.7	325.5	335.9	344.2	348.6	354.1	364.0	373.9	380.5	384.3
115°	329.3	343.6	354.6	363.4	368.4	373.3	384.9	394.8	401.4	404.1
117.5°	344.2	358.5	370.0	378.8	384.3	389.8	401.4	410.2	417.3	419.5
120°	356.3	370.6	382.1	392.0	397.5	402.5	413.5	422.8	429.4	431.0
122.5°	364.5	379.4	391.5	402.5	407.4	412.4	422.8	432.1	438.2	439.8
125°	370.6	386.0	398.1	409.6	414.6	419.5	429.4	438.7	443.7	445.9
127.5°	374.4	389.8	403.0	414.0	419.5	423.9	433.8	442.0	447.0	448.6
130°	375.5	391.5	404.7	416.2	421.1	425.5	434.9	443.1	447.5	448.6
132.5°	375.5	390.9	404.7	415.7	420.6	425.0	433.8	441.5	445.9	447.0
135°	373.3	388.2	401.9	412.9	417.9	422.2	431.0	437.6	442.0	442.6
137.5°	369.5	383.8	397.0	408.0	412.9	417.3	425.0	432.1	436.0	437.1
140°	364.5	377.7	390.9	401.4	406.3	410.2	417.9	423.9	427.7	428.8
142.5°	357.9	371.1	383.2	393.7	397.5	401.9	408.5	414.6	417.9	419.0
145°	350.8	363.4	374.4	383.8	388.2	392.0	398.1	403.6	406.9	408.0
147.5°	341.4	354.1	364.5	373.3	377.2	381.0	386.5	391.5	394.8	395.9
150°	329.9	341.4	352.4	360.7	364.5	368.4	373.9	378.3	381.6	382.1
152.5°	318.3	329.3	338.7	346.9	350.8	354.6	359.6	364.0	367.8	367.8
155°	307.3	316.7	325.5	332.6	335.9	339.2	344.2	348.0	351.3	351.3
157.5°	295.8	304.6	311.7	318.3	321.1	323.8	328.2	331.5	334.3	333.7
160°	284.8	291.4	298.0	303.5	306.2	308.4	311.7	314.5	317.2	316.7
162.5°	272.7	278.8	284.2	288.1	290.3	291.9	295.2	298.0	299.6	299.6
165°	259.0	264.5	269.4	273.3	275.5	276.6	279.3	280.9	282.6	282.6
167.5°	244.7	249.1	253.5	256.8	259.0	260.1	262.8	263.9	266.1	265.6
170°	230.4	233.7	237.0	239.7	240.8	241.9	244.1	245.2	246.3	246.3
172.5°	218.8	219.9	221.6	223.8	223.8	224.3	225.4	226.0	226.5	226.5
175°	212.2	212.8	212.8	212.8	212.8	212.8	213.3	212.8	213.3	212.8
177.5°	209.5	209.5	208.9	208.9	208.4	208.9	208.4	207.8	207.8	207.3
180°	208.4	208.4	208.4	208.4	208.4	208.4	208.4	208.4	208.4	208.4

(END OF REPORT)