

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: P395370

Luminaire Tested: **I3-CL-30L83050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395370  
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-30L83050-1D-UNV-W2A-W-4 (4000K)  
Description: CORELITE I3, CLEAR TOP COVER  
3000 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: 2923.0 lumens  
Efficiency: N/A  
Efficacy: 137.9 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

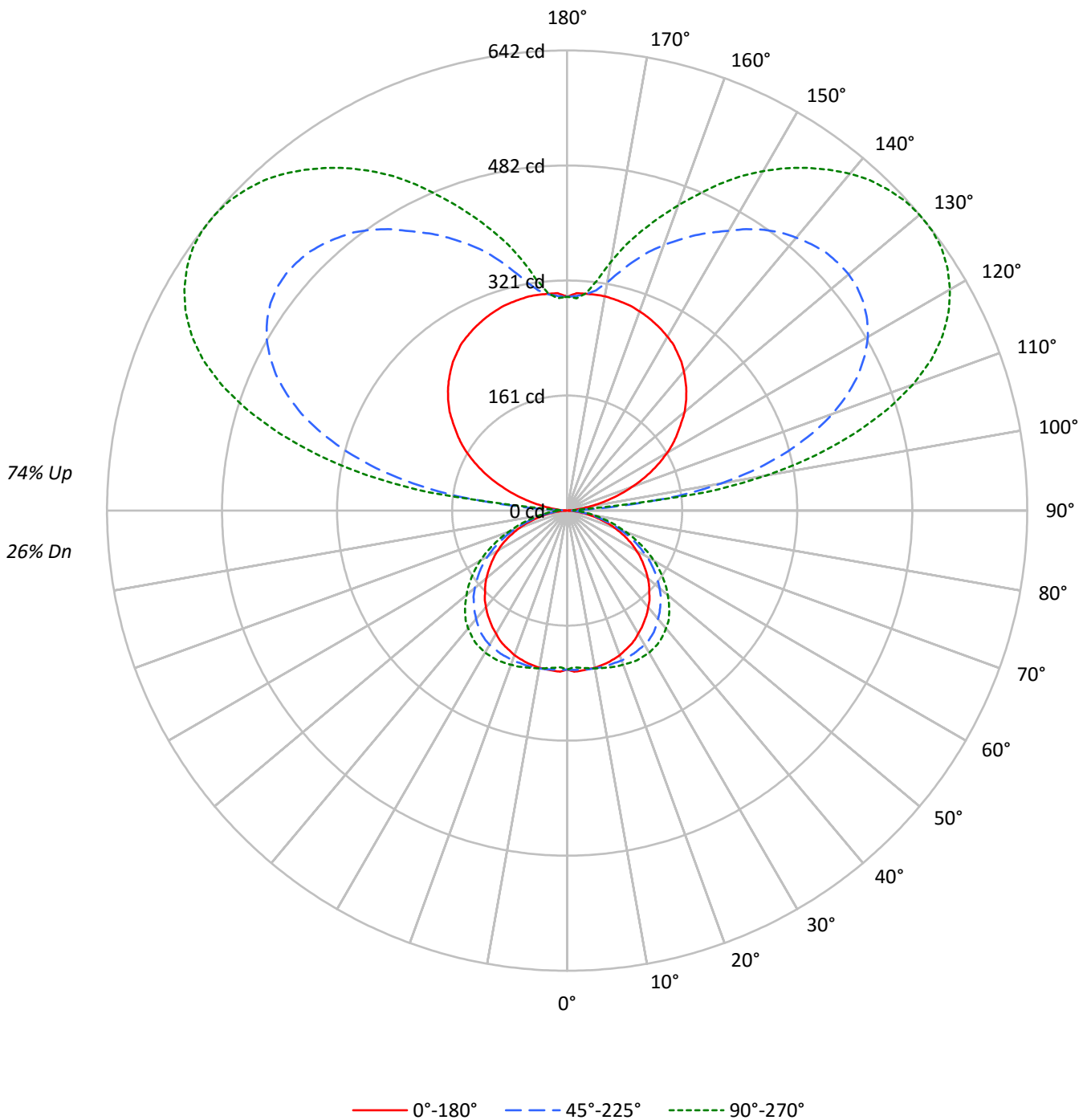
Input Watts (W): 21.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1219	1219	1219
5°	1232	1200	1181
10°	1233	1191	1178
15°	1235	1187	1183
20°	1237	1187	1194
25°	1235	1188	1210
30°	1228	1190	1218
35°	1225	1183	1220
40°	1221	1158	1204
45°	1208	1131	1174
50°	1197	1093	1122
55°	1173	1038	1057
60°	1144	965	976
65°	1096	867	865
70°	1019	737	732
75°	880	587	588
80°	681	417	430
85°	399	258	288



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	21.2	0.7
10°-20°	63.1	2.2
20°-30°	101.1	3.5
30°-40°	129.3	4.4
40°-50°	141.0	4.8
50°-60°	132.1	4.5
60°-70°	102.5	3.5
70°-80°	58.7	2.0
80°-90°	18.8	0.6
90°-100°	75.4	2.6
100°-110°	293.1	10.0
110°-120°	399.0	13.6
120°-130°	414.2	14.2
130°-140°	367.4	12.6
140°-150°	285.0	9.8
150°-160°	190.2	6.5
160°-170°	101.4	3.5
170°-180°	29.7	1.0
0°-30°	185.4	6.3
0°-40°	314.7	10.8
0°-60°	587.7	20.1
0°-90°	767.7	26.3
90°-120°	767.4	26.3
90°-150°	1834.0	62.7
90°-180°	2155.0	73.7
0°-180°	2923.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	222	222	222	222	222	
5°	224	222	223	222	220	21
15°	220	219	223	226	226	62
25°	208	209	220	228	230	96
35°	188	192	209	220	224	118
45°	162	169	184	196	201	125
55°	130	137	149	160	163	116
65°	92	96	105	112	114	91
75°	48	50	55	61	62	51
85°	9	11	16	21	22	11
90°	1	2	6	8	9	1
95°	9	54	73	15	14	12
105°	62	188	319	378	414	66
115°	130	290	448	527	578	128
125°	188	342	505	593	638	168
135°	235	360	510	598	633	181
145°	268	360	478	555	584	168
155°	289	341	424	481	503	133
165°	300	313	360	394	404	85
175°	304	302	303	304	304	29
180°	298	298	298	298	298	



TEST NUMBER: P395370

CATALOG NUMBER: I3-CL-30L83050-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	221.8	221.8	221.8	221.8	221.8	221.8	221.8	221.8	221.8	221.8	221.8
2.5°	225.0	224.2	224.2	222.6	222.6	221.8	221.8	221.8	221.8	221.8	222.6
5°	224.2	224.2	223.4	222.6	222.6	221.8	221.8	221.8	221.8	221.8	222.6
7.5°	223.4	223.4	222.6	221.8	221.8	221.8	221.8	221.8	221.8	221.8	223.4
10°	222.6	222.6	221.8	221.0	221.0	221.0	221.0	221.8	221.8	221.8	223.4
12.5°	221.0	220.2	220.2	219.5	219.5	219.5	220.2	220.2	221.0	221.8	223.4
15°	219.5	219.5	218.7	217.9	218.7	218.7	218.7	219.5	220.2	221.0	223.4
17.5°	217.1	217.1	216.3	216.3	216.3	217.1	217.1	217.9	219.5	221.0	222.6
20°	214.7	213.9	213.9	213.9	214.7	214.7	215.5	217.1	217.9	220.2	222.6
22.5°	210.8	211.6	210.8	210.8	211.6	212.4	213.2	214.7	216.3	218.7	221.0
25°	207.7	207.7	207.7	207.7	209.2	209.2	210.8	212.4	214.7	217.1	220.2
27.5°	203.7	203.7	203.7	204.5	205.3	206.1	206.9	209.2	211.6	214.7	217.9
30°	198.2	198.2	198.2	198.2	200.6	201.4	202.9	206.1	208.4	212.4	216.3
32.5°	193.5	193.5	193.5	194.3	195.9	196.6	198.2	202.1	205.3	209.2	213.2
35°	188.0	188.0	188.8	188.8	191.1	191.9	193.5	196.6	199.8	204.5	209.2
37.5°	182.5	182.5	183.3	184.1	185.6	187.2	188.8	191.9	195.1	199.0	203.7
40°	176.2	176.2	177.0	177.8	180.1	181.7	183.3	186.4	189.6	193.5	197.4
42.5°	169.9	169.9	170.7	171.5	173.8	175.4	177.0	180.9	184.1	188.0	191.1
45°	162.0	162.8	163.6	165.2	167.5	169.1	170.7	173.8	177.8	180.9	184.1
47.5°	155.0	155.7	156.5	158.1	160.5	162.0	163.6	166.8	169.9	173.0	177.0
50°	147.1	147.9	148.7	150.2	152.6	154.2	155.7	158.9	162.0	164.4	168.3
52.5°	138.4	139.2	140.0	141.6	144.7	145.5	147.1	150.2	152.6	155.7	158.9
55°	129.8	130.6	131.4	132.9	135.3	136.9	137.6	140.8	143.2	146.3	149.4
57.5°	121.1	121.9	122.7	124.3	125.9	127.4	128.2	130.6	133.7	136.1	139.2
60°	111.7	112.5	113.3	114.1	116.4	117.2	118.0	120.3	122.7	125.9	128.2
62.5°	102.3	102.3	103.0	103.8	106.2	107.0	107.8	109.3	112.5	114.1	116.4
65°	92.0	92.0	92.8	93.6	95.2	96.0	96.7	98.3	100.7	102.3	104.6
67.5°	81.0	81.0	81.8	82.6	84.2	84.9	84.9	87.3	88.9	90.5	92.0
70°	70.8	70.8	71.6	71.6	72.4	73.2	73.9	75.5	76.3	78.7	79.4
72.5°	59.8	59.8	59.8	59.8	61.4	61.4	62.1	63.7	64.5	66.1	67.6
75°	48.0	48.0	48.8	48.8	49.6	50.3	51.1	51.9	53.5	54.3	55.1
77.5°	37.8	37.0	37.8	38.5	39.3	39.3	40.1	40.9	41.7	43.3	44.0
80°	26.7	26.7	26.7	27.5	28.3	28.3	29.1	29.9	30.7	32.2	33.0
82.5°	17.3	17.3	18.1	18.1	18.9	19.7	19.7	20.5	21.2	22.8	23.6
85°	9.4	9.4	9.4	10.2	11.0	11.0	11.8	12.6	14.2	14.9	16.5
87.5°	3.1	3.1	3.9	4.7	5.5	5.5	6.3	7.1	7.9	9.4	10.2
90°	0.8	0.8	0.8	1.6	1.6	2.4	2.4	3.1	3.9	4.7	5.5
92.5°	3.1	5.5	8.7	12.6	11.8	12.6	8.7	5.5	5.5	5.5	6.3
95°	9.4	14.2	22.8	36.2	47.2	53.5	59.0	64.5	75.5	76.3	73.2
97.5°	18.9	26.0	41.7	59.0	78.7	88.9	96.7	113.3	130.6	141.6	155.0
100°	31.5	41.7	62.1	85.7	108.5	121.9	134.5	158.1	179.3	198.2	218.7
102.5°	46.4	58.2	83.4	112.5	140.8	155.7	169.1	196.6	225.7	250.9	272.9
105°	62.1	75.5	105.4	138.4	170.7	188.0	204.5	234.4	265.1	292.6	318.6
107.5°	79.4	93.6	125.9	162.8	199.0	218.7	236.8	269.0	301.3	331.1	358.7
110°	96.0	111.7	145.5	185.6	226.5	246.2	264.3	299.7	333.5	365.0	394.1



TEST NUMBER: P395370

CATALOG NUMBER: I3-CL-30L83050-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	113.3	129.8	163.6	207.7	249.3	269.8	288.7	326.4	361.8	394.1	423.2
115°	129.8	145.5	180.9	226.5	269.0	290.2	310.7	349.2	386.2	418.5	448.3
117.5°	145.5	160.5	196.6	242.3	286.3	307.5	328.0	368.1	405.1	438.9	468.0
120°	161.2	174.6	213.9	255.6	300.5	321.7	342.9	383.1	420.8	454.6	484.5
122.5°	175.4	188.0	226.5	267.4	311.5	333.5	354.0	394.9	433.4	467.2	496.3
125°	188.0	199.8	238.3	276.9	320.9	342.2	363.4	403.5	442.0	475.1	505.0
127.5°	200.6	212.4	247.0	286.3	327.2	349.2	369.7	409.8	447.6	481.4	510.5
130°	213.9	222.6	255.6	295.0	333.5	354.0	375.2	413.7	450.7	483.7	512.8
132.5°	225.0	232.8	264.3	302.0	338.2	357.9	376.8	415.3	452.3	483.7	512.1
135°	235.2	241.5	270.6	308.3	342.2	360.2	378.3	414.5	450.7	482.2	509.7
137.5°	244.6	250.9	276.1	313.1	345.3	361.0	378.3	412.2	446.8	478.2	504.2
140°	253.3	258.0	280.8	315.4	346.9	361.8	376.8	408.2	440.5	471.2	497.1
142.5°	261.9	265.9	284.7	317.0	347.7	361.8	376.0	403.5	433.4	463.3	489.2
145°	268.2	272.2	287.9	317.8	346.9	360.2	372.8	398.8	425.5	453.1	478.2
147.5°	275.3	278.4	291.0	316.2	344.5	357.1	368.9	392.5	416.9	442.0	465.6
150°	280.0	283.2	292.6	314.6	340.6	352.4	364.2	386.2	408.2	430.2	450.7
152.5°	284.7	287.1	295.0	312.3	335.9	346.9	357.9	379.1	399.6	419.2	437.3
155°	288.7	291.0	296.5	310.7	330.4	340.6	350.8	371.3	390.1	407.4	424.0
157.5°	292.6	294.2	298.1	308.3	324.1	333.5	342.9	361.0	378.3	395.6	409.0
160°	295.7	296.5	299.7	307.5	318.6	325.6	334.3	350.8	366.5	381.5	394.1
162.5°	298.9	298.9	301.3	306.0	313.8	318.6	324.9	339.0	353.2	366.5	378.3
165°	300.5	300.5	302.0	305.2	309.9	313.1	317.0	326.4	337.4	349.2	360.2
167.5°	302.0	302.0	302.8	304.4	307.5	309.1	310.7	317.0	324.1	332.7	341.4
170°	303.6	302.8	302.8	304.4	305.2	306.0	306.8	309.9	313.1	318.6	323.3
172.5°	303.6	302.8	302.8	303.6	303.6	303.6	303.6	304.4	305.2	308.3	309.9
175°	303.6	302.8	302.8	302.8	302.8	302.0	302.0	302.0	302.0	302.0	302.8
177.5°	303.6	302.8	302.0	302.0	301.3	301.3	300.5	300.5	299.7	299.7	299.7
180°	298.1	298.1	298.1	298.1	298.1	298.1	298.1	298.1	298.1	298.1	298.1



TEST NUMBER: P395370

CATALOG NUMBER: I3-CL-30L83050-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	221.8	221.8	221.8	221.8	221.8	221.8	221.8	221.8	221.8	221.8
2.5°	222.6	222.6	221.8	221.8	221.0	221.0	220.2	219.5	218.7	218.7
5°	223.4	222.6	221.8	221.8	221.8	221.0	221.0	221.0	220.2	220.2
7.5°	223.4	223.4	223.4	222.6	222.6	222.6	222.6	222.6	221.8	221.8
10°	224.2	224.2	224.2	224.2	224.2	224.2	224.2	223.4	223.4	223.4
12.5°	224.2	224.2	224.2	225.0	225.0	225.0	225.0	225.0	225.0	225.0
15°	225.0	225.0	225.7	225.7	226.5	226.5	227.3	227.3	227.3	226.5
17.5°	224.2	225.0	225.7	226.5	227.3	227.3	228.1	228.1	228.1	228.1
20°	224.2	225.7	226.5	227.3	228.1	228.1	228.9	229.7	229.7	228.9
22.5°	223.4	225.0	225.7	227.3	228.1	228.1	229.7	229.7	229.7	229.7
25°	222.6	224.2	225.7	227.3	228.1	228.1	229.7	229.7	230.5	230.5
27.5°	221.0	222.6	225.0	226.5	227.3	228.1	228.9	229.7	229.7	229.7
30°	218.7	221.0	223.4	225.0	225.7	226.5	227.3	228.1	228.9	228.9
32.5°	215.5	217.9	220.2	222.6	223.4	224.2	225.7	226.5	226.5	226.5
35°	212.4	214.7	217.1	219.5	220.2	221.0	222.6	223.4	224.2	224.2
37.5°	207.7	210.0	212.4	214.7	215.5	217.1	218.7	219.5	219.5	219.5
40°	200.6	204.5	207.7	210.0	210.8	212.4	213.2	214.7	214.7	214.7
42.5°	194.3	197.4	199.8	202.9	203.7	206.1	207.7	208.4	209.2	209.2
45°	187.2	190.3	192.7	195.1	195.9	197.4	199.0	199.8	200.6	201.4
47.5°	180.1	182.5	184.8	187.2	188.0	189.6	191.1	191.9	192.7	192.7
50°	171.5	173.8	176.2	178.5	179.3	180.9	181.7	182.5	183.3	183.3
52.5°	162.0	164.4	166.8	169.1	169.9	170.7	172.3	173.0	173.8	173.8
55°	152.6	155.0	156.5	158.9	159.7	160.5	161.2	162.8	163.6	162.8
57.5°	141.6	143.9	145.5	147.9	148.7	149.4	150.2	151.0	151.8	151.8
60°	129.8	132.1	134.5	136.1	136.9	137.6	138.4	139.2	140.0	140.0
62.5°	118.0	120.3	121.9	124.3	125.1	125.1	125.9	126.6	127.4	127.4
65°	106.2	108.5	109.3	111.7	111.7	112.5	113.3	114.1	114.1	114.1
67.5°	93.6	96.0	96.7	98.3	98.3	99.1	99.9	100.7	100.7	100.7
70°	81.8	82.6	84.2	84.9	85.7	85.7	86.5	87.3	88.1	87.3
72.5°	69.2	70.0	71.6	72.4	72.4	73.2	73.2	73.9	74.7	74.7
75°	56.6	58.2	59.0	59.8	60.6	60.6	61.4	62.1	62.1	62.1
77.5°	44.8	46.4	47.2	48.0	48.8	48.8	49.6	49.6	50.3	49.6
80°	34.6	35.4	36.2	37.0	37.8	37.8	38.5	39.3	39.3	39.3
82.5°	25.2	26.0	27.5	28.3	28.3	28.3	29.9	29.9	30.7	29.9
85°	17.3	18.1	19.7	20.5	21.2	21.2	21.2	22.0	22.8	22.0
87.5°	11.0	12.6	13.4	14.2	14.2	14.2	14.9	15.7	15.7	15.7
90°	6.3	6.3	7.1	7.9	7.9	8.7	8.7	9.4	9.4	9.4
92.5°	6.3	7.1	7.1	7.1	7.9	7.9	7.9	8.7	8.7	8.7
95°	53.5	38.5	22.0	17.3	14.9	14.9	14.2	14.9	14.2	14.2
97.5°	162.0	175.4	181.7	190.3	195.1	194.3	191.1	194.3	191.9	194.3
100°	230.5	243.0	252.5	254.8	259.6	261.9	270.6	276.9	280.0	283.9
102.5°	286.3	301.3	312.3	318.6	323.3	326.4	336.6	346.1	350.8	354.0
105°	337.4	353.2	366.5	372.8	378.3	381.5	392.5	403.5	410.6	414.5
107.5°	378.3	396.4	410.6	420.0	425.5	431.0	444.4	455.4	464.1	468.0
110°	415.3	433.4	448.3	459.4	465.6	471.2	486.1	498.7	508.1	512.8





TEST NUMBER: P395370

CATALOG NUMBER: I3-CL-30L83050-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	446.0	465.6	480.6	492.4	498.7	506.5	520.7	534.9	544.3	549.8
115°	471.2	491.6	507.3	519.9	527.0	534.1	550.6	564.8	574.2	578.1
117.5°	492.4	512.8	529.4	541.9	549.8	557.7	574.2	586.8	597.0	600.1
120°	509.7	530.1	546.7	560.8	568.7	575.8	591.5	604.9	614.3	616.7
122.5°	521.5	542.7	560.0	575.8	582.8	589.9	604.9	618.2	626.9	629.3
125°	530.1	552.2	569.5	586.0	593.1	600.1	614.3	627.7	634.8	637.9
127.5°	535.6	557.7	576.6	592.3	600.1	606.4	620.6	632.4	639.5	641.8
130°	537.2	560.0	578.9	595.4	602.5	608.8	622.2	634.0	640.3	641.8
132.5°	537.2	559.2	578.9	594.6	601.7	608.0	620.6	631.6	637.9	639.5
135°	534.1	555.3	575.0	590.7	597.8	604.1	616.7	626.1	632.4	633.2
137.5°	528.6	549.0	567.9	583.6	590.7	597.0	608.0	618.2	623.7	625.3
140°	521.5	540.4	559.2	574.2	581.3	586.8	597.8	606.4	611.9	613.5
142.5°	512.1	530.9	548.2	563.2	568.7	575.0	584.4	593.1	597.8	599.4
145°	501.8	519.9	535.6	549.0	555.3	560.8	569.5	577.3	582.1	583.6
147.5°	488.5	506.5	521.5	534.1	539.6	545.1	553.0	560.0	564.8	566.3
150°	471.9	488.5	504.2	516.0	521.5	527.0	534.9	541.2	545.9	546.7
152.5°	455.4	471.2	484.5	496.3	501.8	507.3	514.4	520.7	526.2	526.2
155°	439.7	453.1	465.6	475.9	480.6	485.3	492.4	497.9	502.6	502.6
157.5°	423.2	435.8	446.0	455.4	459.4	463.3	469.6	474.3	478.2	477.4
160°	407.4	416.9	426.3	434.2	438.1	441.3	446.0	449.9	453.8	453.1
162.5°	390.1	398.8	406.7	412.2	415.3	417.7	422.4	426.3	428.7	428.7
165°	370.5	378.3	385.4	390.9	394.1	395.6	399.6	401.9	404.3	404.3
167.5°	350.0	356.3	362.6	367.3	370.5	372.0	376.0	377.6	380.7	379.9
170°	329.6	334.3	339.0	342.9	344.5	346.1	349.2	350.8	352.4	352.4
172.5°	313.1	314.6	317.0	320.1	320.1	320.9	322.5	323.3	324.1	324.1
175°	303.6	304.4	304.4	304.4	304.4	304.4	305.2	304.4	305.2	304.4
177.5°	299.7	299.7	298.9	298.9	298.1	298.9	298.1	297.3	297.3	296.5
180°	298.1	298.1	298.1	298.1	298.1	298.1	298.1	298.1	298.1	298.1

(END OF REPORT)