

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: P395423

Luminaire Tested: **I3-CL-50L83050-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395423  
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-50L83050-1D-UNV-W2A-W-4 (4500K)  
Description: CORELITE I3, CLEAR TOP COVER  
5000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 3000K/5000K CCT, 80 CRI LEDS, TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4903.6 lumens  
Efficiency: N/A  
Efficacy: 131.8 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

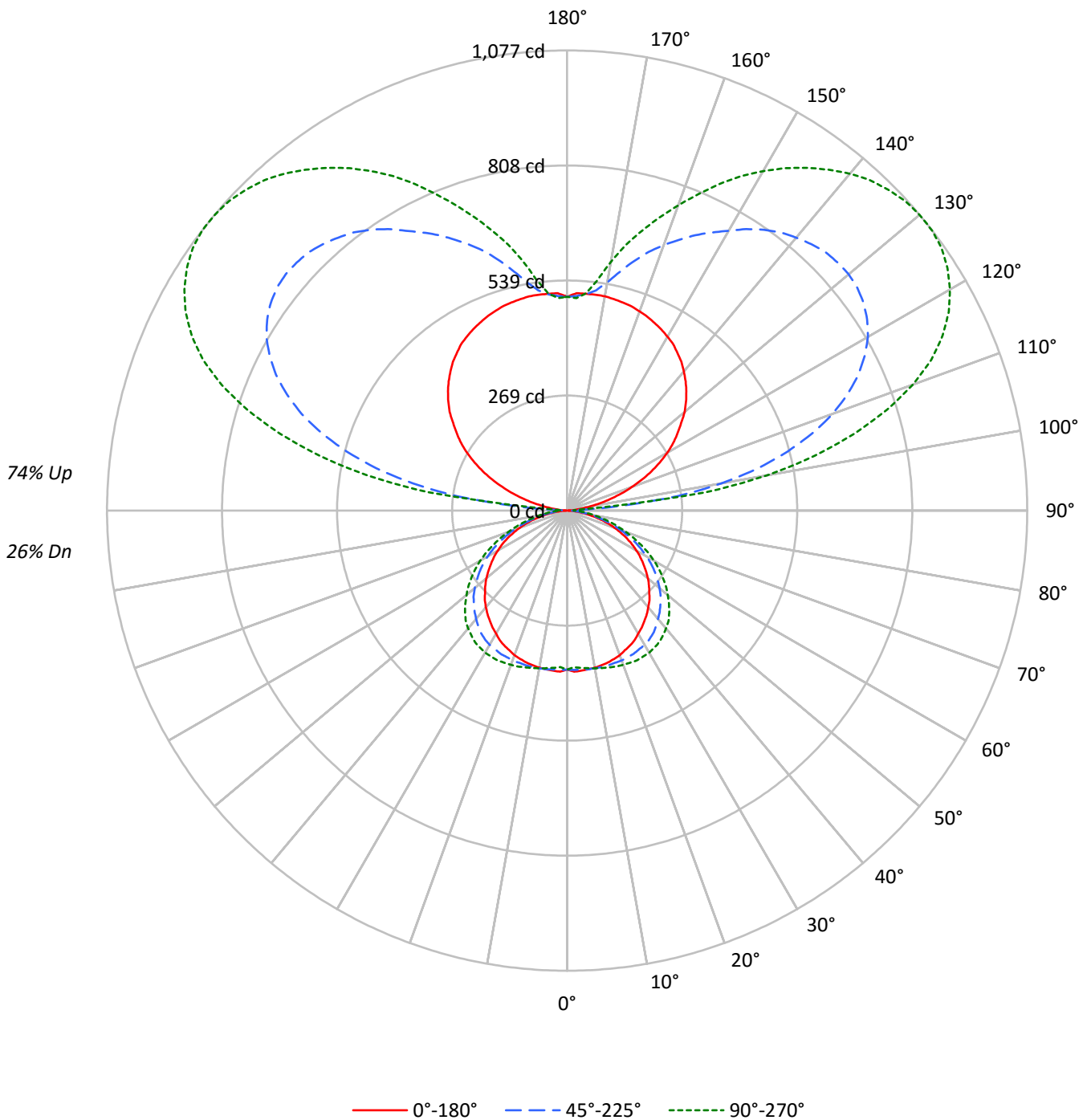
Input Watts (W): 37.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P395423

CATALOG NUMBER: I3-CL-50L83050-1D-UNV-W2A-W-4 (4500K)

### Luminous Intensity Polar Plot





TEST NUMBER: P395423

CATALOG NUMBER: I3-CL-50L83050-1D-UNV-W2A-W-4 (4500K)

**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°	2045	2045	2045
5°	2067	2013	1981
10°	2069	1998	1975
15°	2072	1990	1985
20°	2075	1991	2003
25°	2072	1994	2029
30°	2060	1997	2044
35°	2055	1986	2046
40°	2048	1943	2020
45°	2027	1896	1969
50°	2009	1834	1882
55°	1967	1741	1773
60°	1919	1619	1637
65°	1840	1454	1451
70°	1709	1238	1229
75°	1475	985	986
80°	1145	699	723
85°	670	433	484



TEST NUMBER: P395423

CATALOG NUMBER: I3-CL-50L83050-1D-UNV-W2A-W-4 (4500K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.6	0.7
10°-20°	105.8	2.2
20°-30°	169.6	3.5
30°-40°	216.9	4.4
40°-50°	236.5	4.8
50°-60°	221.6	4.5
60°-70°	171.9	3.5
70°-80°	98.5	2.0
80°-90°	31.5	0.6
90°-100°	126.5	2.6
100°-110°	491.6	10.0
110°-120°	669.3	13.6
120°-130°	694.8	14.2
130°-140°	616.3	12.6
140°-150°	478.2	9.8
150°-160°	319.1	6.5
160°-170°	170.1	3.5
170°-180°	49.8	1.0
0°-30°	311.0	6.3
0°-40°	527.9	10.8
0°-60°	985.9	20.1
0°-90°	1287.9	26.3
90°-120°	1287.4	26.3
90°-150°	3076.7	62.7
90°-180°	3616.0	73.7
0°-180°	4903.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	372	372	372	372	372	
5°	376	372	373	372	370	36
15°	368	367	375	380	380	104
25°	348	351	370	383	387	161
35°	315	322	351	370	376	197
45°	272	284	309	329	338	210
55°	218	230	251	268	273	195
65°	154	161	176	187	191	152
75°	80	84	92	102	104	86
85°	16	18	28	36	37	19
90°	1	4	9	13	16	2
95°	16	90	123	25	24	21
105°	104	315	534	635	695	111
115°	218	487	752	884	970	215
125°	315	574	847	995	1070	282
135°	394	604	855	1003	1062	304
145°	450	604	802	932	979	282
155°	484	571	711	806	843	224
165°	504	525	604	661	678	143
175°	509	507	508	511	511	49
180°	500	500	500	500	500	



TEST NUMBER: P395423

CATALOG NUMBER: I3-CL-50L83050-1D-UNV-W2A-W-4 (4500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	372.1	372.1	372.1	372.1	372.1	372.1	372.1	372.1	372.1	372.1	372.1
2.5°	377.4	376.1	376.1	373.4	373.4	372.1	372.1	372.1	372.1	372.1	373.4
5°	376.1	376.1	374.7	373.4	373.4	372.1	372.1	372.1	372.1	372.1	373.4
7.5°	374.7	374.7	373.4	372.1	372.1	372.1	372.1	372.1	372.1	372.1	374.7
10°	373.4	373.4	372.1	370.8	370.8	370.8	370.8	372.1	372.1	372.1	374.7
12.5°	370.8	369.5	369.5	368.2	368.2	368.2	369.5	369.5	370.8	372.1	374.7
15°	368.2	368.2	366.8	365.5	366.8	366.8	366.8	368.2	369.5	370.8	374.7
17.5°	364.2	364.2	362.9	362.9	362.9	364.2	364.2	365.5	368.2	370.8	373.4
20°	360.2	358.9	358.9	358.9	360.2	360.2	361.6	364.2	365.5	369.5	373.4
22.5°	353.6	355.0	353.6	353.6	355.0	356.3	357.6	360.2	362.9	366.8	370.8
25°	348.4	348.4	348.4	348.4	351.0	351.0	353.6	356.3	360.2	364.2	369.5
27.5°	341.8	341.8	341.8	343.1	344.4	345.7	347.0	351.0	355.0	360.2	365.5
30°	332.5	332.5	332.5	332.5	336.5	337.8	340.4	345.7	349.7	356.3	362.9
32.5°	324.6	324.6	324.6	325.9	328.6	329.9	332.5	339.1	344.4	351.0	357.6
35°	315.4	315.4	316.7	316.7	320.6	322.0	324.6	329.9	335.2	343.1	351.0
37.5°	306.1	306.1	307.5	308.8	311.4	314.1	316.7	322.0	327.2	333.8	341.8
40°	295.6	295.6	296.9	298.2	302.2	304.8	307.5	312.7	318.0	324.6	331.2
42.5°	285.0	285.0	286.3	287.7	291.6	294.3	296.9	303.5	308.8	315.4	320.6
45°	271.8	273.1	274.5	277.1	281.1	283.7	286.3	291.6	298.2	303.5	308.8
47.5°	259.9	261.3	262.6	265.2	269.2	271.8	274.5	279.7	285.0	290.3	296.9
50°	246.8	248.1	249.4	252.0	256.0	258.6	261.3	266.5	271.8	275.8	282.4
52.5°	232.2	233.6	234.9	237.5	242.8	244.1	246.8	252.0	256.0	261.3	266.5
55°	217.7	219.0	220.4	223.0	227.0	229.6	230.9	236.2	240.2	245.4	250.7
57.5°	203.2	204.5	205.8	208.5	211.1	213.8	215.1	219.0	224.3	228.3	233.6
60°	187.4	188.7	190.0	191.3	195.3	196.6	197.9	201.9	205.8	211.1	215.1
62.5°	171.5	171.5	172.9	174.2	178.1	179.5	180.8	183.4	188.7	191.3	195.3
65°	154.4	154.4	155.7	157.0	159.7	161.0	162.3	164.9	168.9	171.5	175.5
67.5°	135.9	135.9	137.2	138.6	141.2	142.5	142.5	146.5	149.1	151.7	154.4
70°	118.8	118.8	120.1	120.1	121.4	122.7	124.0	126.7	128.0	132.0	133.3
72.5°	100.3	100.3	100.3	100.3	102.9	102.9	104.2	106.9	108.2	110.8	113.5
75°	80.5	80.5	81.8	81.8	83.1	84.5	85.8	87.1	89.7	91.0	92.4
77.5°	63.3	62.0	63.3	64.7	66.0	66.0	67.3	68.6	69.9	72.6	73.9
80°	44.9	44.9	44.9	46.2	47.5	47.5	48.8	50.1	51.5	54.1	55.4
82.5°	29.0	29.0	30.3	30.3	31.7	33.0	33.0	34.3	35.6	38.3	39.6
85°	15.8	15.8	15.8	17.2	18.5	18.5	19.8	21.1	23.8	25.1	27.7
87.5°	5.3	5.3	6.6	7.9	9.2	9.2	10.6	11.9	13.2	15.8	17.2
90°	1.3	1.3	1.3	2.6	2.6	4.0	4.0	5.3	6.6	7.9	9.2
92.5°	5.3	9.2	14.5	21.1	19.8	21.1	14.5	9.2	9.2	9.2	10.6
95°	15.8	23.8	38.3	60.7	79.2	89.7	99.0	108.2	126.7	128.0	122.7
97.5°	31.7	43.5	69.9	99.0	132.0	149.1	162.3	190.0	219.0	237.5	259.9
100°	52.8	69.9	104.2	143.8	182.1	204.5	225.6	265.2	300.9	332.5	366.8
102.5°	77.9	97.6	139.9	188.7	236.2	261.3	283.7	329.9	378.7	420.9	457.9
105°	104.2	126.7	176.8	232.2	286.3	315.4	343.1	393.2	444.7	490.9	534.4
107.5°	133.3	157.0	211.1	273.1	333.8	366.8	397.2	451.3	505.4	555.5	601.7
110°	161.0	187.4	244.1	311.4	380.0	413.0	443.4	502.7	559.5	612.3	661.1



TEST NUMBER: P395423

CATALOG NUMBER: I3-CL-50L83050-1D-UNV-W2A-W-4 (4500K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	190.0	217.7	274.5	348.4	418.3	452.6	484.3	547.6	607.0	661.1	709.9
115°	217.7	244.1	303.5	380.0	451.3	486.9	521.2	585.9	647.9	702.0	752.1
117.5°	244.1	269.2	329.9	406.4	480.3	515.9	550.2	617.5	679.6	736.3	785.1
120°	270.5	292.9	358.9	428.8	504.1	539.7	575.3	642.6	706.0	762.7	812.8
122.5°	294.3	315.4	380.0	448.6	522.5	559.5	593.8	662.4	727.1	783.8	832.6
125°	315.4	335.2	399.8	464.5	538.4	574.0	609.6	676.9	741.6	797.0	847.1
127.5°	336.5	356.3	414.3	480.3	548.9	585.9	620.2	687.5	750.8	807.6	856.4
130°	358.9	373.4	428.8	494.8	559.5	593.8	629.4	694.1	756.1	811.5	860.3
132.5°	377.4	390.6	443.4	506.7	567.4	600.4	632.1	696.7	758.7	811.5	859.0
135°	394.5	405.1	453.9	517.3	574.0	604.3	634.7	695.4	756.1	808.9	855.1
137.5°	410.4	420.9	463.2	525.2	579.3	605.7	634.7	691.4	749.5	802.3	845.8
140°	424.9	432.8	471.1	529.1	581.9	607.0	632.1	684.8	738.9	790.4	833.9
142.5°	439.4	446.0	477.7	531.8	583.2	607.0	630.7	676.9	727.1	777.2	820.8
145°	450.0	456.6	483.0	533.1	581.9	604.3	625.5	669.0	713.9	760.1	802.3
147.5°	461.8	467.1	488.2	530.5	578.0	599.1	618.9	658.4	699.4	741.6	781.2
150°	469.8	475.0	490.9	527.8	571.4	591.2	610.9	647.9	684.8	721.8	756.1
152.5°	477.7	481.6	494.8	523.9	563.4	581.9	600.4	636.0	670.3	703.3	733.7
155°	484.3	488.2	497.5	521.2	554.2	571.4	588.5	622.8	654.5	683.5	711.2
157.5°	490.9	493.5	500.1	517.3	543.6	559.5	575.3	605.7	634.7	663.7	686.2
160°	496.1	497.5	502.7	515.9	534.4	546.3	560.8	588.5	614.9	640.0	661.1
162.5°	501.4	501.4	505.4	513.3	526.5	534.4	545.0	568.7	592.5	614.9	634.7
165°	504.1	504.1	506.7	512.0	519.9	525.2	531.8	547.6	566.1	585.9	604.3
167.5°	506.7	506.7	508.0	510.7	515.9	518.6	521.2	531.8	543.6	558.2	572.7
170°	509.3	508.0	508.0	510.7	512.0	513.3	514.6	519.9	525.2	534.4	542.3
172.5°	509.3	508.0	508.0	509.3	509.3	509.3	509.3	510.7	512.0	517.3	519.9
175°	509.3	508.0	508.0	508.0	508.0	506.7	506.7	506.7	506.7	506.7	508.0
177.5°	509.3	508.0	506.7	506.7	505.4	505.4	504.1	504.1	502.7	502.7	502.7
180°	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1



TEST NUMBER: P395423

CATALOG NUMBER: I3-CL-50L83050-1D-UNV-W2A-W-4 (4500K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	372.1	372.1	372.1	372.1	372.1	372.1	372.1	372.1	372.1	372.1
2.5°	373.4	373.4	372.1	372.1	370.8	370.8	369.5	368.2	366.8	366.8
5°	374.7	373.4	372.1	372.1	372.1	370.8	370.8	370.8	369.5	369.5
7.5°	374.7	374.7	374.7	373.4	373.4	373.4	373.4	373.4	372.1	372.1
10°	376.1	376.1	376.1	376.1	376.1	376.1	376.1	374.7	374.7	374.7
12.5°	376.1	376.1	376.1	377.4	377.4	377.4	377.4	377.4	377.4	377.4
15°	377.4	377.4	378.7	378.7	380.0	380.0	381.3	381.3	381.3	380.0
17.5°	376.1	377.4	378.7	380.0	381.3	381.3	382.7	382.7	382.7	382.7
20°	376.1	378.7	380.0	381.3	382.7	382.7	384.0	385.3	385.3	384.0
22.5°	374.7	377.4	378.7	381.3	382.7	382.7	385.3	385.3	385.3	385.3
25°	373.4	376.1	378.7	381.3	382.7	382.7	385.3	385.3	386.6	386.6
27.5°	370.8	373.4	377.4	380.0	381.3	382.7	384.0	385.3	385.3	385.3
30°	366.8	370.8	374.7	377.4	378.7	380.0	381.3	382.7	384.0	384.0
32.5°	361.6	365.5	369.5	373.4	374.7	376.1	378.7	380.0	380.0	380.0
35°	356.3	360.2	364.2	368.2	369.5	370.8	373.4	374.7	376.1	376.1
37.5°	348.4	352.3	356.3	360.2	361.6	364.2	366.8	368.2	368.2	368.2
40°	336.5	343.1	348.4	352.3	353.6	356.3	357.6	360.2	360.2	360.2
42.5°	325.9	331.2	335.2	340.4	341.8	345.7	348.4	349.7	351.0	351.0
45°	314.1	319.3	323.3	327.2	328.6	331.2	333.8	335.2	336.5	337.8
47.5°	302.2	306.1	310.1	314.1	315.4	318.0	320.6	322.0	323.3	323.3
50°	287.7	291.6	295.6	299.5	300.9	303.5	304.8	306.1	307.5	307.5
52.5°	271.8	275.8	279.7	283.7	285.0	286.3	289.0	290.3	291.6	291.6
55°	256.0	259.9	262.6	266.5	267.9	269.2	270.5	273.1	274.5	273.1
57.5°	237.5	241.5	244.1	248.1	249.4	250.7	252.0	253.4	254.7	254.7
60°	217.7	221.7	225.6	228.3	229.6	230.9	232.2	233.6	234.9	234.9
62.5°	197.9	201.9	204.5	208.5	209.8	209.8	211.1	212.4	213.8	213.8
65°	178.1	182.1	183.4	187.4	187.4	188.7	190.0	191.3	191.3	191.3
67.5°	157.0	161.0	162.3	164.9	164.9	166.3	167.6	168.9	168.9	168.9
70°	137.2	138.6	141.2	142.5	143.8	143.8	145.1	146.5	147.8	146.5
72.5°	116.1	117.4	120.1	121.4	121.4	122.7	122.7	124.0	125.4	125.4
75°	95.0	97.6	99.0	100.3	101.6	101.6	102.9	104.2	104.2	104.2
77.5°	75.2	77.9	79.2	80.5	81.8	81.8	83.1	83.1	84.5	83.1
80°	58.1	59.4	60.7	62.0	63.3	63.3	64.7	66.0	66.0	66.0
82.5°	42.2	43.5	46.2	47.5	47.5	47.5	50.1	50.1	51.5	50.1
85°	29.0	30.3	33.0	34.3	35.6	35.6	35.6	36.9	38.3	36.9
87.5°	18.5	21.1	22.4	23.8	23.8	23.8	25.1	26.4	26.4	26.4
90°	10.6	10.6	11.9	13.2	13.2	14.5	14.5	15.8	15.8	15.8
92.5°	10.6	11.9	11.9	11.9	13.2	13.2	13.2	14.5	14.5	14.5
95°	89.7	64.7	36.9	29.0	25.1	25.1	23.8	25.1	23.8	23.8
97.5°	271.8	294.3	304.8	319.3	327.2	325.9	320.6	325.9	322.0	325.9
100°	386.6	407.7	423.6	427.5	435.4	439.4	453.9	464.5	469.8	476.4
102.5°	480.3	505.4	523.9	534.4	542.3	547.6	564.8	580.6	588.5	593.8
105°	566.1	592.5	614.9	625.5	634.7	640.0	658.4	676.9	688.8	695.4
107.5°	634.7	665.0	688.8	704.6	713.9	723.1	745.5	764.0	778.5	785.1
110°	696.7	727.1	752.1	770.6	781.2	790.4	815.5	836.6	852.4	860.3





TEST NUMBER: P395423

CATALOG NUMBER: I3-CL-50L83050-1D-UNV-W2A-W-4 (4500K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	748.2	781.2	806.2	826.0	836.6	849.8	873.5	897.3	913.1	922.4
115°	790.4	824.7	851.1	872.2	884.1	896.0	923.7	947.4	963.3	969.9
117.5°	826.0	860.3	888.0	909.2	922.4	935.6	963.3	984.4	1001.5	1006.8
120°	855.1	889.4	917.1	940.8	954.0	965.9	992.3	1014.7	1030.6	1034.5
122.5°	874.9	910.5	939.5	965.9	977.8	989.7	1014.7	1037.2	1051.7	1055.6
125°	889.4	926.3	955.3	983.1	994.9	1006.8	1030.6	1053.0	1064.9	1070.1
127.5°	898.6	935.6	967.2	993.6	1006.8	1017.4	1041.1	1060.9	1072.8	1076.7
130°	901.2	939.5	971.2	998.9	1010.8	1021.3	1043.8	1063.5	1074.1	1076.7
132.5°	901.2	938.2	971.2	997.6	1009.4	1020.0	1041.1	1059.6	1070.1	1072.8
135°	896.0	931.6	964.6	991.0	1002.8	1013.4	1034.5	1050.4	1060.9	1062.2
137.5°	886.7	921.0	952.7	979.1	991.0	1001.5	1020.0	1037.2	1046.4	1049.0
140°	874.9	906.5	938.2	963.3	975.1	984.4	1002.8	1017.4	1026.6	1029.2
142.5°	859.0	890.7	919.7	944.8	954.0	964.6	980.4	994.9	1002.8	1005.5
145°	841.9	872.2	898.6	921.0	931.6	940.8	955.3	968.5	976.5	979.1
147.5°	819.4	849.8	874.9	896.0	905.2	914.4	927.6	939.5	947.4	950.1
150°	791.7	819.4	845.8	865.6	874.9	884.1	897.3	907.8	915.8	917.1
152.5°	764.0	790.4	812.8	832.6	841.9	851.1	863.0	873.5	882.8	882.8
155°	737.6	760.1	781.2	798.3	806.2	814.2	826.0	835.3	843.2	843.2
157.5°	709.9	731.0	748.2	764.0	770.6	777.2	787.8	795.7	802.3	801.0
160°	683.5	699.4	715.2	728.4	735.0	740.3	748.2	754.8	761.4	760.1
162.5°	654.5	669.0	682.2	691.4	696.7	700.7	708.6	715.2	719.1	719.1
165°	621.5	634.7	646.6	655.8	661.1	663.7	670.3	674.3	678.2	678.2
167.5°	587.2	597.8	608.3	616.2	621.5	624.1	630.7	633.4	638.7	637.3
170°	552.9	560.8	568.7	575.3	578.0	580.6	585.9	588.5	591.2	591.2
172.5°	525.2	527.8	531.8	537.1	537.1	538.4	541.0	542.3	543.6	543.6
175°	509.3	510.7	510.7	510.7	510.7	510.7	512.0	510.7	512.0	510.7
177.5°	502.7	502.7	501.4	501.4	500.1	501.4	500.1	498.8	498.8	497.5
180°	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1

(END OF REPORT)