

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: P395415

Luminaire Tested: **I3-CL-50L82765-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395415  
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-50L82765-1D-UNV-W2A-W-4 (4000K)  
Description: CORELITE I3, CLEAR TOP COVER  
5000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4608.1 lumens  
Efficiency: N/A  
Efficacy: 128.4 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

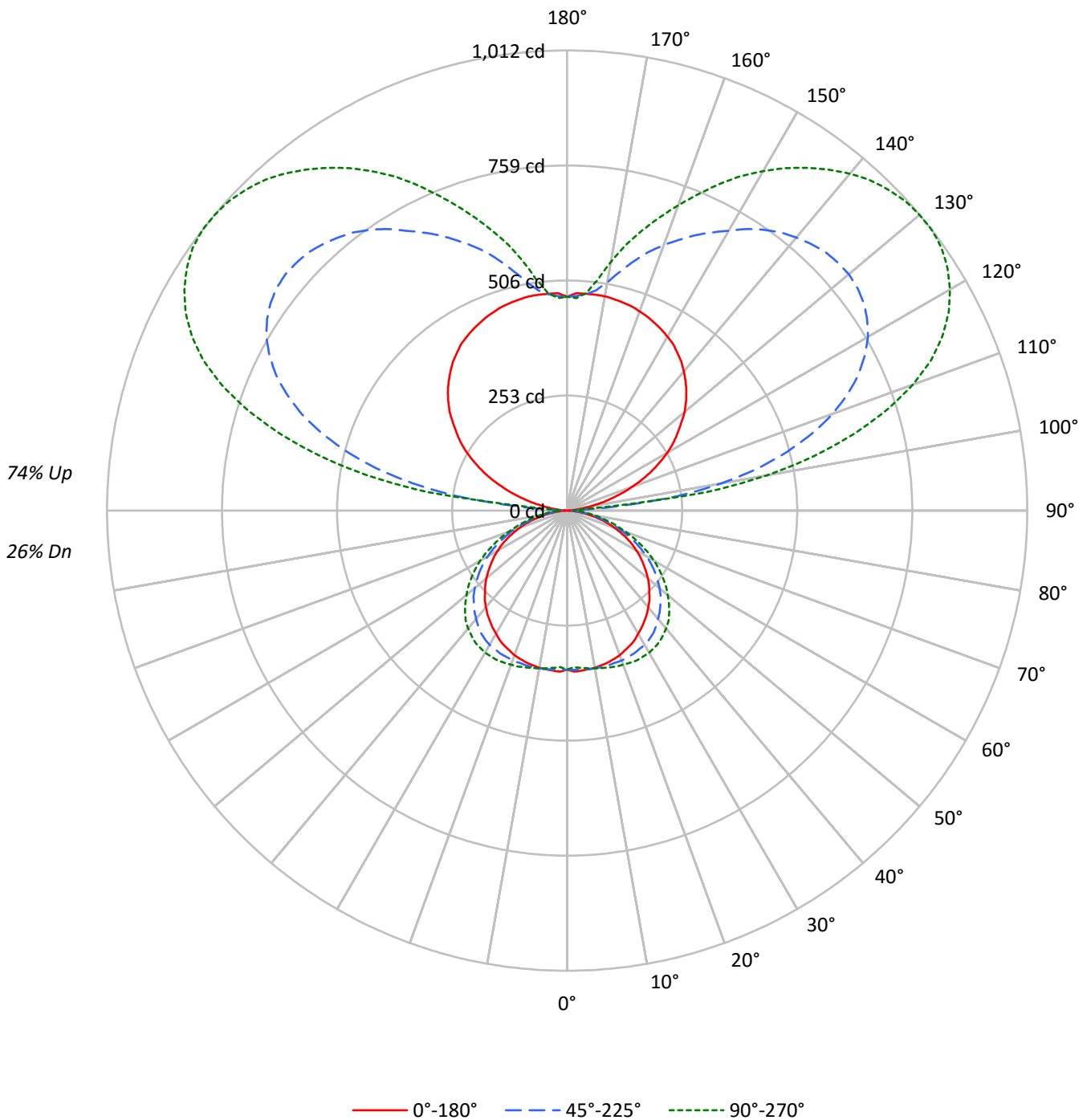
Input Watts (W): 35.9  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P395415

CATALOG NUMBER: I3-CL-50L82765-1D-UNV-W2A-W-4 (4000K)

### Luminous Intensity Polar Plot





TEST NUMBER: P395415

CATALOG NUMBER: I3-CL-50L82765-1D-UNV-W2A-W-4 (4000K)

**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°	1922	1922	1922
5°	1943	1892	1861
10°	1944	1878	1857
15°	1947	1871	1865
20°	1950	1871	1882
25°	1947	1873	1907
30°	1936	1876	1920
35°	1931	1866	1923
40°	1925	1826	1898
45°	1904	1782	1850
50°	1887	1723	1768
55°	1848	1637	1667
60°	1803	1521	1538
65°	1729	1366	1364
70°	1606	1163	1154
75°	1385	925	927
80°	1076	658	679
85°	632	406	455



TEST NUMBER: P395415

CATALOG NUMBER: I3-CL-50L82765-1D-UNV-W2A-W-4 (4000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	33.5	0.7
10°-20°	99.4	2.2
20°-30°	159.4	3.5
30°-40°	203.8	4.4
40°-50°	222.2	4.8
50°-60°	208.2	4.5
60°-70°	161.6	3.5
70°-80°	92.6	2.0
80°-90°	29.6	0.6
90°-100°	118.8	2.6
100°-110°	462.0	10.0
110°-120°	629.0	13.6
120°-130°	652.9	14.2
130°-140°	579.2	12.6
140°-150°	449.4	9.8
150°-160°	299.9	6.5
160°-170°	159.8	3.5
170°-180°	46.8	1.0
0°-30°	292.2	6.3
0°-40°	496.0	10.8
0°-60°	926.5	20.1
0°-90°	1210.3	26.3
90°-120°	1209.8	26.3
90°-150°	2891.3	62.7
90°-180°	3398.0	73.7
0°-180°	4608.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	350	350	350	350	350	
5°	353	350	351	350	347	34
15°	346	345	352	357	357	98
25°	327	330	347	360	363	151
35°	296	303	330	347	353	186
45°	255	267	290	309	317	197
55°	205	216	236	252	257	183
65°	145	151	165	176	180	143
75°	76	79	87	96	98	81
85°	15	17	26	34	35	18
90°	1	4	9	12	15	2
95°	15	84	115	24	22	20
105°	98	296	502	596	654	105
115°	205	458	707	831	911	202
125°	296	539	796	935	1006	265
135°	371	568	804	942	998	286
145°	423	568	754	876	920	265
155°	455	537	668	758	792	210
165°	474	494	568	621	637	134
175°	479	476	477	480	480	46
180°	470	470	470	470	470	



TEST NUMBER: P395415

CATALOG NUMBER: I3-CL-50L82765-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7
2.5°	354.6	353.4	353.4	350.9	350.9	349.7	349.7	349.7	349.7	349.7	350.9
5°	353.4	353.4	352.2	350.9	350.9	349.7	349.7	349.7	349.7	349.7	350.9
7.5°	352.2	352.2	350.9	349.7	349.7	349.7	349.7	349.7	349.7	349.7	352.2
10°	350.9	350.9	349.7	348.4	348.4	348.4	348.4	349.7	349.7	349.7	352.2
12.5°	348.4	347.2	347.2	346.0	346.0	346.0	347.2	347.2	348.4	349.7	352.2
15°	346.0	346.0	344.7	343.5	344.7	344.7	344.7	346.0	347.2	348.4	352.2
17.5°	342.2	342.2	341.0	341.0	341.0	342.2	342.2	343.5	346.0	348.4	350.9
20°	338.5	337.3	337.3	337.3	338.5	338.5	339.8	342.2	343.5	347.2	350.9
22.5°	332.3	333.6	332.3	332.3	333.6	334.8	336.0	338.5	341.0	344.7	348.4
25°	327.4	327.4	327.4	327.4	329.8	329.8	332.3	334.8	338.5	342.2	347.2
27.5°	321.2	321.2	321.2	322.4	323.6	324.9	326.1	329.8	333.6	338.5	343.5
30°	312.5	312.5	312.5	312.5	316.2	317.4	319.9	324.9	328.6	334.8	341.0
32.5°	305.0	305.0	305.0	306.3	308.8	310.0	312.5	318.7	323.6	329.8	336.0
35°	296.4	296.4	297.6	297.6	301.3	302.6	305.0	310.0	315.0	322.4	329.8
37.5°	287.7	287.7	288.9	290.2	292.6	295.1	297.6	302.6	307.5	313.7	321.2
40°	277.8	277.8	279.0	280.2	284.0	286.4	288.9	293.9	298.8	305.0	311.2
42.5°	267.8	267.8	269.1	270.3	274.0	276.5	279.0	285.2	290.2	296.4	301.3
45°	255.4	256.7	257.9	260.4	264.1	266.6	269.1	274.0	280.2	285.2	290.2
47.5°	244.3	245.5	246.8	249.2	253.0	255.4	257.9	262.9	267.8	272.8	279.0
50°	231.9	233.1	234.4	236.8	240.6	243.0	245.5	250.5	255.4	259.2	265.4
52.5°	218.2	219.5	220.7	223.2	228.2	229.4	231.9	236.8	240.6	245.5	250.5
55°	204.6	205.8	207.1	209.6	213.3	215.8	217.0	222.0	225.7	230.6	235.6
57.5°	191.0	192.2	193.4	195.9	198.4	200.9	202.1	205.8	210.8	214.5	219.5
60°	176.1	177.3	178.6	179.8	183.5	184.8	186.0	189.7	193.4	198.4	202.1
62.5°	161.2	161.2	162.4	163.7	167.4	168.6	169.9	172.4	177.3	179.8	183.5
65°	145.1	145.1	146.3	147.6	150.0	151.3	152.5	155.0	158.7	161.2	164.9
67.5°	127.7	127.7	129.0	130.2	132.7	133.9	133.9	137.6	140.1	142.6	145.1
70°	111.6	111.6	112.8	112.8	114.1	115.3	116.6	119.0	120.3	124.0	125.2
72.5°	94.2	94.2	94.2	94.2	96.7	96.7	98.0	100.4	101.7	104.2	106.6
75°	75.6	75.6	76.9	76.9	78.1	79.4	80.6	81.8	84.3	85.6	86.8
77.5°	59.5	58.3	59.5	60.8	62.0	62.0	63.2	64.5	65.7	68.2	69.4
80°	42.2	42.2	42.2	43.4	44.6	44.6	45.9	47.1	48.4	50.8	52.1
82.5°	27.3	27.3	28.5	28.5	29.8	31.0	31.0	32.2	33.5	36.0	37.2
85°	14.9	14.9	14.9	16.1	17.4	17.4	18.6	19.8	22.3	23.6	26.0
87.5°	5.0	5.0	6.2	7.4	8.7	8.7	9.9	11.2	12.4	14.9	16.1
90°	1.2	1.2	1.2	2.5	2.5	3.7	3.7	5.0	6.2	7.4	8.7
92.5°	5.0	8.7	13.6	19.8	18.6	19.8	13.6	8.7	8.7	8.7	9.9
95°	14.9	22.3	36.0	57.0	74.4	84.3	93.0	101.7	119.0	120.3	115.3
97.5°	29.8	40.9	65.7	93.0	124.0	140.1	152.5	178.6	205.8	223.2	244.3
100°	49.6	65.7	98.0	135.2	171.1	192.2	212.0	249.2	282.7	312.5	344.7
102.5°	73.2	91.8	131.4	177.3	222.0	245.5	266.6	310.0	355.9	395.6	430.3
105°	98.0	119.0	166.2	218.2	269.1	296.4	322.4	369.5	417.9	461.3	502.2
107.5°	125.2	147.6	198.4	256.7	313.7	344.7	373.2	424.1	474.9	522.0	565.4
110°	151.3	176.1	229.4	292.6	357.1	388.1	416.6	472.4	525.8	575.4	621.2



TEST NUMBER: P395415

CATALOG NUMBER: I3-CL-50L82765-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	178.6	204.6	257.9	327.4	393.1	425.3	455.1	514.6	570.4	621.2	667.1
115°	204.6	229.4	285.2	357.1	424.1	457.6	489.8	550.6	608.8	659.7	706.8
117.5°	229.4	253.0	310.0	381.9	451.4	484.8	517.1	580.3	638.6	691.9	737.8
120°	254.2	275.3	337.3	403.0	473.7	507.2	540.6	603.9	663.4	716.7	763.9
122.5°	276.5	296.4	357.1	421.6	491.0	525.8	558.0	622.5	683.3	736.6	782.5
125°	296.4	315.0	375.7	436.5	505.9	539.4	572.9	636.1	696.9	749.0	796.1
127.5°	316.2	334.8	389.4	451.4	515.8	550.6	582.8	646.0	705.6	758.9	804.8
130°	337.3	350.9	403.0	465.0	525.8	558.0	591.5	652.2	710.5	762.6	808.5
132.5°	354.6	367.0	416.6	476.2	533.2	564.2	594.0	654.7	713.0	762.6	807.3
135°	370.8	380.7	426.6	486.1	539.4	567.9	596.4	653.5	710.5	760.1	803.5
137.5°	385.6	395.6	435.2	493.5	544.4	569.2	596.4	649.8	704.3	753.9	794.9
140°	399.3	406.7	442.7	497.2	546.8	570.4	594.0	643.6	694.4	742.8	783.7
142.5°	412.9	419.1	448.9	499.7	548.1	570.4	592.7	636.1	683.3	730.4	771.3
145°	422.8	429.0	453.8	501.0	546.8	567.9	587.8	628.7	670.8	714.3	753.9
147.5°	434.0	439.0	458.8	498.5	543.1	563.0	581.6	618.8	657.2	696.9	734.1
150°	441.4	446.4	461.3	496.0	536.9	555.5	574.1	608.8	643.6	678.3	710.5
152.5°	448.9	452.6	465.0	492.3	529.5	546.8	564.2	597.7	629.9	660.9	689.5
155°	455.1	458.8	467.5	489.8	520.8	536.9	553.0	585.3	615.0	642.3	668.4
157.5°	461.3	463.8	470.0	486.1	510.9	525.8	540.6	569.2	596.4	623.7	644.8
160°	466.2	467.5	472.4	484.8	502.2	513.4	527.0	553.0	577.8	601.4	621.2
162.5°	471.2	471.2	474.9	482.4	494.8	502.2	512.1	534.4	556.8	577.8	596.4
165°	473.7	473.7	476.2	481.1	488.6	493.5	499.7	514.6	532.0	550.6	567.9
167.5°	476.2	476.2	477.4	479.9	484.8	487.3	489.8	499.7	510.9	524.5	538.2
170°	478.6	477.4	477.4	479.9	481.1	482.4	483.6	488.6	493.5	502.2	509.6
172.5°	478.6	477.4	477.4	478.6	478.6	478.6	478.6	479.9	481.1	486.1	488.6
175°	478.6	477.4	477.4	477.4	477.4	476.2	476.2	476.2	476.2	476.2	477.4
177.5°	478.6	477.4	476.2	476.2	474.9	474.9	473.7	473.7	472.4	472.4	472.4
180°	470.0	470.0	470.0	470.0	470.0	470.0	470.0	470.0	470.0	470.0	470.0



TEST NUMBER: P395415

CATALOG NUMBER: I3-CL-50L82765-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7
2.5°	350.9	350.9	349.7	349.7	348.4	348.4	347.2	346.0	344.7	344.7
5°	352.2	350.9	349.7	349.7	349.7	348.4	348.4	348.4	347.2	347.2
7.5°	352.2	352.2	352.2	350.9	350.9	350.9	350.9	350.9	349.7	349.7
10°	353.4	353.4	353.4	353.4	353.4	353.4	353.4	352.2	352.2	352.2
12.5°	353.4	353.4	353.4	354.6	354.6	354.6	354.6	354.6	354.6	354.6
15°	354.6	354.6	355.9	355.9	357.1	357.1	358.4	358.4	358.4	357.1
17.5°	353.4	354.6	355.9	357.1	358.4	358.4	359.6	359.6	359.6	359.6
20°	353.4	355.9	357.1	358.4	359.6	359.6	360.8	362.1	362.1	360.8
22.5°	352.2	354.6	355.9	358.4	359.6	359.6	362.1	362.1	362.1	362.1
25°	350.9	353.4	355.9	358.4	359.6	359.6	362.1	362.1	363.3	363.3
27.5°	348.4	350.9	354.6	357.1	358.4	359.6	360.8	362.1	362.1	362.1
30°	344.7	348.4	352.2	354.6	355.9	357.1	358.4	359.6	360.8	360.8
32.5°	339.8	343.5	347.2	350.9	352.2	353.4	355.9	357.1	357.1	357.1
35°	334.8	338.5	342.2	346.0	347.2	348.4	350.9	352.2	353.4	353.4
37.5°	327.4	331.1	334.8	338.5	339.8	342.2	344.7	346.0	346.0	346.0
40°	316.2	322.4	327.4	331.1	332.3	334.8	336.0	338.5	338.5	338.5
42.5°	306.3	311.2	315.0	319.9	321.2	324.9	327.4	328.6	329.8	329.8
45°	295.1	300.1	303.8	307.5	308.8	311.2	313.7	315.0	316.2	317.4
47.5°	284.0	287.7	291.4	295.1	296.4	298.8	301.3	302.6	303.8	303.8
50°	270.3	274.0	277.8	281.5	282.7	285.2	286.4	287.7	288.9	288.9
52.5°	255.4	259.2	262.9	266.6	267.8	269.1	271.6	272.8	274.0	274.0
55°	240.6	244.3	246.8	250.5	251.7	253.0	254.2	256.7	257.9	256.7
57.5°	223.2	226.9	229.4	233.1	234.4	235.6	236.8	238.1	239.3	239.3
60°	204.6	208.3	212.0	214.5	215.8	217.0	218.2	219.5	220.7	220.7
62.5°	186.0	189.7	192.2	195.9	197.2	197.2	198.4	199.6	200.9	200.9
65°	167.4	171.1	172.4	176.1	176.1	177.3	178.6	179.8	179.8	179.8
67.5°	147.6	151.3	152.5	155.0	155.0	156.2	157.5	158.7	158.7	158.7
70°	129.0	130.2	132.7	133.9	135.2	135.2	136.4	137.6	138.9	137.6
72.5°	109.1	110.4	112.8	114.1	114.1	115.3	115.3	116.6	117.8	117.8
75°	89.3	91.8	93.0	94.2	95.5	95.5	96.7	98.0	98.0	98.0
77.5°	70.7	73.2	74.4	75.6	76.9	76.9	78.1	78.1	79.4	78.1
80°	54.6	55.8	57.0	58.3	59.5	59.5	60.8	62.0	62.0	62.0
82.5°	39.7	40.9	43.4	44.6	44.6	44.6	47.1	47.1	48.4	47.1
85°	27.3	28.5	31.0	32.2	33.5	33.5	33.5	34.7	36.0	34.7
87.5°	17.4	19.8	21.1	22.3	22.3	22.3	23.6	24.8	24.8	24.8
90°	9.9	9.9	11.2	12.4	12.4	13.6	13.6	14.9	14.9	14.9
92.5°	9.9	11.2	11.2	11.2	12.4	12.4	12.4	13.6	13.6	13.6
95°	84.3	60.8	34.7	27.3	23.6	23.6	22.3	23.6	22.3	22.3
97.5°	255.4	276.5	286.4	300.1	307.5	306.3	301.3	306.3	302.6	306.3
100°	363.3	383.2	398.0	401.8	409.2	412.9	426.6	436.5	441.4	447.6
102.5°	451.4	474.9	492.3	502.2	509.6	514.6	530.7	545.6	553.0	558.0
105°	532.0	556.8	577.8	587.8	596.4	601.4	618.8	636.1	647.3	653.5
107.5°	596.4	625.0	647.3	662.2	670.8	679.5	700.6	718.0	731.6	737.8
110°	654.7	683.3	706.8	724.2	734.1	742.8	766.3	786.2	801.1	808.5





TEST NUMBER: P395415

CATALOG NUMBER: I3-CL-50L82765-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	703.1	734.1	757.7	776.3	786.2	798.6	820.9	843.2	858.1	866.8
115°	742.8	775.0	799.8	819.7	830.8	842.0	868.0	890.3	905.2	911.4
117.5°	776.3	808.5	834.5	854.4	866.8	879.2	905.2	925.1	941.2	946.1
120°	803.5	835.8	861.8	884.1	896.5	907.7	932.5	953.6	968.5	972.2
122.5°	822.1	855.6	882.9	907.7	918.9	930.0	953.6	974.7	988.3	992.0
125°	835.8	870.5	897.8	923.8	935.0	946.1	968.5	989.5	1000.7	1005.7
127.5°	844.5	879.2	908.9	933.7	946.1	956.1	978.4	997.0	1008.1	1011.9
130°	846.9	882.9	912.7	938.7	949.9	959.8	980.9	999.5	1009.4	1011.9
132.5°	846.9	881.7	912.7	937.5	948.6	958.5	978.4	995.7	1005.7	1008.1
135°	842.0	875.5	906.5	931.3	942.4	952.3	972.2	987.1	997.0	998.2
137.5°	833.3	865.5	895.3	920.1	931.3	941.2	958.5	974.7	983.3	985.8
140°	822.1	851.9	881.7	905.2	916.4	925.1	942.4	956.1	964.7	967.2
142.5°	807.3	837.0	864.3	887.9	896.5	906.5	921.3	935.0	942.4	944.9
145°	791.1	819.7	844.5	865.5	875.5	884.1	897.8	910.2	917.6	920.1
147.5°	770.1	798.6	822.1	842.0	850.7	859.3	871.7	882.9	890.3	892.8
150°	744.0	770.1	794.9	813.5	822.1	830.8	843.2	853.1	860.6	861.8
152.5°	718.0	742.8	763.9	782.5	791.1	799.8	811.0	820.9	829.6	829.6
155°	693.2	714.3	734.1	750.2	757.7	765.1	776.3	784.9	792.4	792.4
157.5°	667.1	687.0	703.1	718.0	724.2	730.4	740.3	747.7	753.9	752.7
160°	642.3	657.2	672.1	684.5	690.7	695.7	703.1	709.3	715.5	714.3
162.5°	615.0	628.7	641.1	649.8	654.7	658.4	665.9	672.1	675.8	675.8
165°	584.0	596.4	607.6	616.3	621.2	623.7	629.9	633.6	637.4	637.4
167.5°	551.8	561.7	571.6	579.1	584.0	586.5	592.7	595.2	600.2	598.9
170°	519.6	527.0	534.4	540.6	543.1	545.6	550.6	553.0	555.5	555.5
172.5°	493.5	496.0	499.7	504.7	504.7	505.9	508.4	509.6	510.9	510.9
175°	478.6	479.9	479.9	479.9	479.9	479.9	481.1	479.9	481.1	479.9
177.5°	472.4	472.4	471.2	471.2	470.0	471.2	470.0	468.7	468.7	467.5
180°	470.0	470.0	470.0	470.0	470.0	470.0	470.0	470.0	470.0	470.0

(END OF REPORT)