

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: P395414

Luminaire Tested: **I3-CL-50L82765-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395414
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 (3500K)
Description: CORELITE I3, CLEAR TOP COVER
5000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4511.2 lumens
Efficiency: N/A
Efficacy: 126.4 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

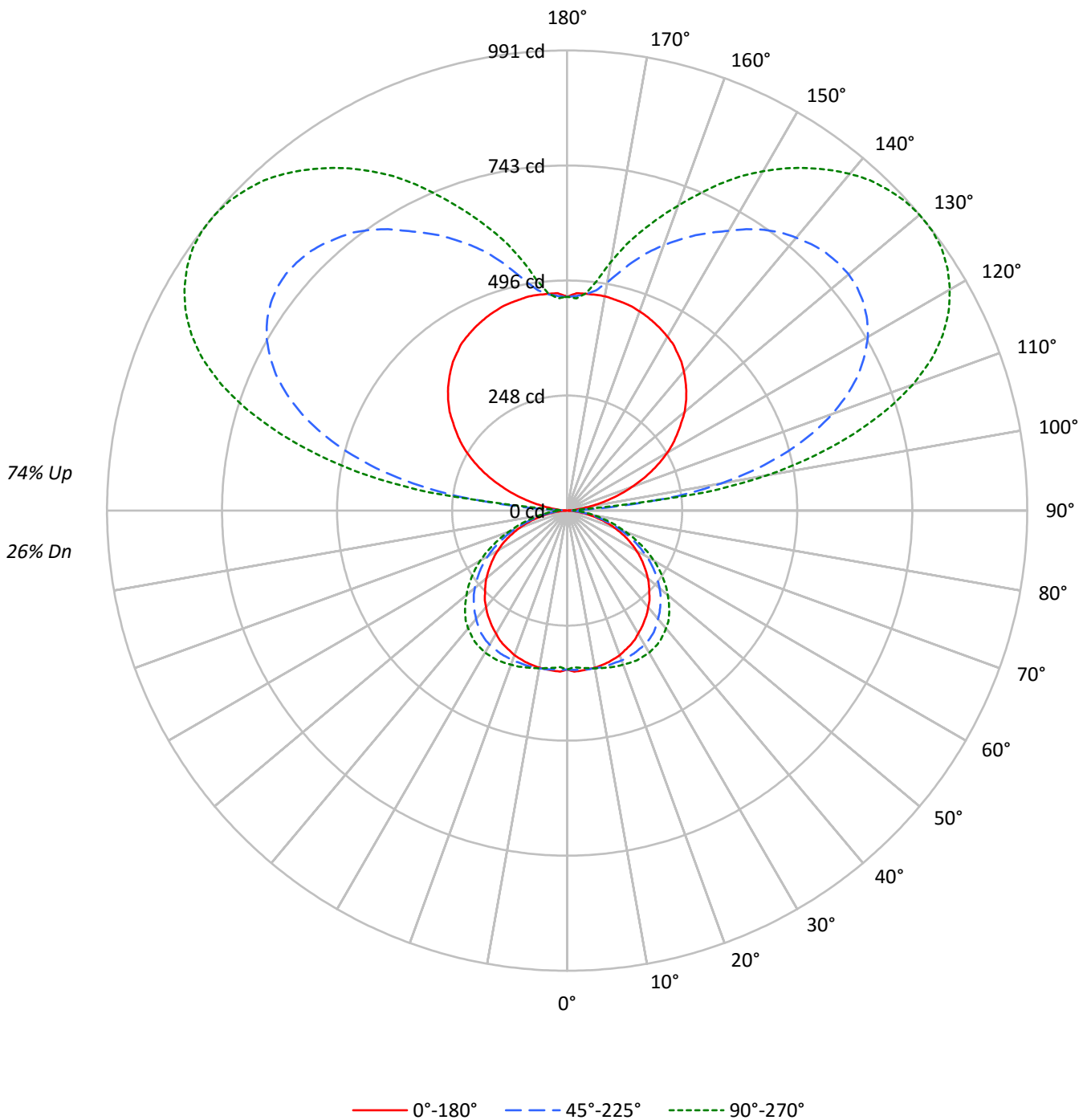
Input Watts (W): 35.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: I3-CL-50L82765-1D-UNV-W2A-W-4 (3500K)

Luminous Intensity Polar Plot





TEST NUMBER: P395414

CATALOG NUMBER: I3-CL-50L82765-1D-UNV-W2A-W-4 (3500K)

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°	1881	1881	1881
5°	1902	1852	1822
10°	1903	1838	1818
15°	1906	1832	1826
20°	1909	1832	1843
25°	1906	1834	1867
30°	1895	1837	1880
35°	1890	1827	1882
40°	1884	1788	1858
45°	1865	1745	1812
50°	1847	1687	1731
55°	1809	1602	1631
60°	1765	1490	1506
65°	1692	1338	1335
70°	1573	1139	1130
75°	1356	906	908
80°	1053	644	665
85°	619	398	446



TEST NUMBER: P395414

CATALOG NUMBER: I3-CL-50L82765-1D-UNV-W2A-W-4 (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.8	0.7
10°-20°	97.3	2.2
20°-30°	156.0	3.5
30°-40°	199.5	4.4
40°-50°	217.6	4.8
50°-60°	203.8	4.5
60°-70°	158.2	3.5
70°-80°	90.7	2.0
80°-90°	29.0	0.6
90°-100°	116.3	2.6
100°-110°	452.3	10.0
110°-120°	615.8	13.6
120°-130°	639.2	14.2
130°-140°	567.0	12.6
140°-150°	439.9	9.8
150°-160°	293.6	6.5
160°-170°	156.5	3.5
170°-180°	45.8	1.0
0°-30°	286.1	6.3
0°-40°	485.6	10.8
0°-60°	907.0	20.1
0°-90°	1184.8	26.3
90°-120°	1184.4	26.3
90°-150°	2830.5	62.7
90°-180°	3326.0	73.7
0°-180°	4511.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	342	342	342	342	342	
5°	346	342	344	342	340	33
15°	339	338	345	350	350	96
25°	320	323	340	352	356	148
35°	290	296	323	340	346	182
45°	250	261	284	302	311	193
55°	200	211	231	246	251	179
65°	142	148	162	172	176	140
75°	74	78	85	94	96	79
85°	15	17	26	33	34	18
90°	1	4	8	12	15	2
95°	15	82	113	23	22	19
105°	96	290	492	584	640	102
115°	200	448	692	813	892	197
125°	290	528	779	915	984	259
135°	363	556	787	923	977	280
145°	414	556	738	857	901	259
155°	446	526	654	742	776	206
165°	464	483	556	608	624	131
175°	469	466	467	470	470	45
180°	460	460	460	460	460	



TEST NUMBER: P395414

CATALOG NUMBER: I3-CL-50L82765-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	342.3	342.3	342.3	342.3	342.3	342.3	342.3	342.3	342.3	342.3	342.3
2.5°	347.2	346.0	346.0	343.5	343.5	342.3	342.3	342.3	342.3	342.3	343.5
5°	346.0	346.0	344.8	343.5	343.5	342.3	342.3	342.3	342.3	342.3	343.5
7.5°	344.8	344.8	343.5	342.3	342.3	342.3	342.3	342.3	342.3	342.3	344.8
10°	343.5	343.5	342.3	341.1	341.1	341.1	341.1	342.3	342.3	342.3	344.8
12.5°	341.1	339.9	339.9	338.7	338.7	338.7	339.9	339.9	341.1	342.3	344.8
15°	338.7	338.7	337.5	336.3	337.5	337.5	337.5	338.7	339.9	341.1	344.8
17.5°	335.0	335.0	333.8	333.8	333.8	335.0	335.0	336.3	338.7	341.1	343.5
20°	331.4	330.2	330.2	330.2	331.4	331.4	332.6	335.0	336.3	339.9	343.5
22.5°	325.3	326.5	325.3	325.3	326.5	327.8	329.0	331.4	333.8	337.5	341.1
25°	320.5	320.5	320.5	320.5	322.9	322.9	325.3	327.8	331.4	335.0	339.9
27.5°	314.4	314.4	314.4	315.6	316.8	318.0	319.3	322.9	326.5	331.4	336.3
30°	305.9	305.9	305.9	305.9	309.6	310.8	313.2	318.0	321.7	327.8	333.8
32.5°	298.6	298.6	298.6	299.8	302.3	303.5	305.9	312.0	316.8	322.9	329.0
35°	290.1	290.1	291.3	291.3	295.0	296.2	298.6	303.5	308.3	315.6	322.9
37.5°	281.6	281.6	282.8	284.1	286.5	288.9	291.3	296.2	301.1	307.1	314.4
40°	271.9	271.9	273.1	274.3	278.0	280.4	282.8	287.7	292.6	298.6	304.7
42.5°	262.2	262.2	263.4	264.6	268.3	270.7	273.1	279.2	284.1	290.1	295.0
45°	250.1	251.3	252.5	254.9	258.6	261.0	263.4	268.3	274.3	279.2	284.1
47.5°	239.1	240.4	241.6	244.0	247.6	250.1	252.5	257.4	262.2	267.1	273.1
50°	227.0	228.2	229.4	231.9	235.5	237.9	240.4	245.2	250.1	253.7	259.8
52.5°	213.7	214.9	216.1	218.5	223.4	224.6	227.0	231.9	235.5	240.4	245.2
55°	200.3	201.5	202.7	205.2	208.8	211.2	212.4	217.3	220.9	225.8	230.6
57.5°	186.9	188.2	189.4	191.8	194.2	196.7	197.9	201.5	206.4	210.0	214.9
60°	172.4	173.6	174.8	176.0	179.7	180.9	182.1	185.7	189.4	194.2	197.9
62.5°	157.8	157.8	159.0	160.2	163.9	165.1	166.3	168.7	173.6	176.0	179.7
65°	142.0	142.0	143.2	144.5	146.9	148.1	149.3	151.7	155.4	157.8	161.5
67.5°	125.0	125.0	126.2	127.5	129.9	131.1	131.1	134.7	137.2	139.6	142.0
70°	109.3	109.3	110.5	110.5	111.7	112.9	114.1	116.5	117.8	121.4	122.6
72.5°	92.3	92.3	92.3	92.3	94.7	94.7	95.9	98.3	99.5	102.0	104.4
75°	74.0	74.0	75.3	75.3	76.5	77.7	78.9	80.1	82.5	83.8	85.0
77.5°	58.3	57.1	58.3	59.5	60.7	60.7	61.9	63.1	64.3	66.8	68.0
80°	41.3	41.3	41.3	42.5	43.7	43.7	44.9	46.1	47.3	49.8	51.0
82.5°	26.7	26.7	27.9	27.9	29.1	30.3	30.3	31.6	32.8	35.2	36.4
85°	14.6	14.6	14.6	15.8	17.0	17.0	18.2	19.4	21.9	23.1	25.5
87.5°	4.9	4.9	6.1	7.3	8.5	8.5	9.7	10.9	12.1	14.6	15.8
90°	1.2	1.2	1.2	2.4	2.4	3.6	3.6	4.9	6.1	7.3	8.5
92.5°	4.9	8.5	13.4	19.4	18.2	19.4	13.4	8.5	8.5	8.5	9.7
95°	14.6	21.9	35.2	55.8	72.8	82.5	91.0	99.5	116.5	117.8	112.9
97.5°	29.1	40.1	64.3	91.0	121.4	137.2	149.3	174.8	201.5	218.5	239.1
100°	48.6	64.3	95.9	132.3	167.5	188.2	207.6	244.0	276.8	305.9	337.5
102.5°	71.6	89.8	128.7	173.6	217.3	240.4	261.0	303.5	348.4	387.2	421.2
105°	95.9	116.5	162.7	213.7	263.4	290.1	315.6	361.7	409.1	451.6	491.6
107.5°	122.6	144.5	194.2	251.3	307.1	337.5	365.4	415.2	464.9	511.1	553.6
110°	148.1	172.4	224.6	286.5	349.6	380.0	407.9	462.5	514.7	563.3	608.2



TEST NUMBER: P395414

CATALOG NUMBER: I3-CL-50L82765-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	174.8	200.3	252.5	320.5	384.8	416.4	445.5	503.8	558.4	608.2	653.1
115°	200.3	224.6	279.2	349.6	415.2	447.9	479.5	539.0	596.0	645.8	691.9
117.5°	224.6	247.6	303.5	373.9	441.9	474.6	506.2	568.1	625.2	677.4	722.3
120°	248.9	269.5	330.2	394.5	463.7	496.5	529.3	591.2	649.5	701.6	747.8
122.5°	270.7	290.1	349.6	412.7	480.7	514.7	546.3	609.4	668.9	721.1	766.0
125°	290.1	308.3	367.8	427.3	495.3	528.1	560.8	622.7	682.2	733.2	779.3
127.5°	309.6	327.8	381.2	441.9	505.0	539.0	570.5	632.5	690.7	742.9	787.8
130°	330.2	343.5	394.5	455.2	514.7	546.3	579.0	638.5	695.6	746.6	791.5
132.5°	347.2	359.3	407.9	466.1	522.0	552.3	581.5	641.0	698.0	746.6	790.3
135°	363.0	372.7	417.6	475.9	528.1	556.0	583.9	639.7	695.6	744.1	786.6
137.5°	377.5	387.2	426.1	483.1	532.9	557.2	583.9	636.1	689.5	738.1	778.1
140°	390.9	398.2	433.4	486.8	535.3	558.4	581.5	630.0	679.8	727.1	767.2
142.5°	404.2	410.3	439.4	489.2	536.6	558.4	580.3	622.7	668.9	715.0	755.1
145°	413.9	420.0	444.3	490.4	535.3	556.0	575.4	615.5	656.7	699.2	738.1
147.5°	424.9	429.7	449.2	488.0	531.7	551.1	569.3	605.7	643.4	682.2	718.6
150°	432.2	437.0	451.6	485.6	525.6	543.8	562.0	596.0	630.0	664.0	695.6
152.5°	439.4	443.1	455.2	481.9	518.3	535.3	552.3	585.1	616.7	647.0	674.9
155°	445.5	449.2	457.6	479.5	509.8	525.6	541.4	573.0	602.1	628.8	654.3
157.5°	451.6	454.0	460.1	475.9	500.1	514.7	529.3	557.2	583.9	610.6	631.2
160°	456.4	457.6	462.5	474.6	491.6	502.6	515.9	541.4	565.7	588.8	608.2
162.5°	461.3	461.3	464.9	472.2	484.4	491.6	501.4	523.2	545.1	565.7	583.9
165°	463.7	463.7	466.1	471.0	478.3	483.1	489.2	503.8	520.8	539.0	556.0
167.5°	466.1	466.1	467.4	469.8	474.6	477.1	479.5	489.2	500.1	513.5	526.8
170°	468.6	467.4	467.4	469.8	471.0	472.2	473.4	478.3	483.1	491.6	498.9
172.5°	468.6	467.4	467.4	468.6	468.6	468.6	468.6	469.8	471.0	475.9	478.3
175°	468.6	467.4	467.4	467.4	467.4	466.1	466.1	466.1	466.1	466.1	467.4
177.5°	468.6	467.4	466.1	466.1	464.9	464.9	463.7	463.7	462.5	462.5	462.5
180°	460.1	460.1	460.1	460.1	460.1	460.1	460.1	460.1	460.1	460.1	460.1



TEST NUMBER: P395414

CATALOG NUMBER: I3-CL-50L82765-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	342.3	342.3	342.3	342.3	342.3	342.3	342.3	342.3	342.3	342.3
2.5°	343.5	343.5	342.3	342.3	341.1	341.1	339.9	338.7	337.5	337.5
5°	344.8	343.5	342.3	342.3	342.3	341.1	341.1	341.1	339.9	339.9
7.5°	344.8	344.8	344.8	343.5	343.5	343.5	343.5	343.5	342.3	342.3
10°	346.0	346.0	346.0	346.0	346.0	346.0	346.0	344.8	344.8	344.8
12.5°	346.0	346.0	346.0	347.2	347.2	347.2	347.2	347.2	347.2	347.2
15°	347.2	347.2	348.4	348.4	349.6	349.6	350.8	350.8	350.8	349.6
17.5°	346.0	347.2	348.4	349.6	350.8	350.8	352.0	352.0	352.0	352.0
20°	346.0	348.4	349.6	350.8	352.0	352.0	353.3	354.5	354.5	353.3
22.5°	344.8	347.2	348.4	350.8	352.0	352.0	354.5	354.5	354.5	354.5
25°	343.5	346.0	348.4	350.8	352.0	352.0	354.5	354.5	355.7	355.7
27.5°	341.1	343.5	347.2	349.6	350.8	352.0	353.3	354.5	354.5	354.5
30°	337.5	341.1	344.8	347.2	348.4	349.6	350.8	352.0	353.3	353.3
32.5°	332.6	336.3	339.9	343.5	344.8	346.0	348.4	349.6	349.6	349.6
35°	327.8	331.4	335.0	338.7	339.9	341.1	343.5	344.8	346.0	346.0
37.5°	320.5	324.1	327.8	331.4	332.6	335.0	337.5	338.7	338.7	338.7
40°	309.6	315.6	320.5	324.1	325.3	327.8	329.0	331.4	331.4	331.4
42.5°	299.8	304.7	308.3	313.2	314.4	318.0	320.5	321.7	322.9	322.9
45°	288.9	293.8	297.4	301.1	302.3	304.7	307.1	308.3	309.6	310.8
47.5°	278.0	281.6	285.3	288.9	290.1	292.6	295.0	296.2	297.4	297.4
50°	264.6	268.3	271.9	275.6	276.8	279.2	280.4	281.6	282.8	282.8
52.5°	250.1	253.7	257.4	261.0	262.2	263.4	265.8	267.1	268.3	268.3
55°	235.5	239.1	241.6	245.2	246.4	247.6	248.9	251.3	252.5	251.3
57.5°	218.5	222.1	224.6	228.2	229.4	230.6	231.9	233.1	234.3	234.3
60°	200.3	203.9	207.6	210.0	211.2	212.4	213.7	214.9	216.1	216.1
62.5°	182.1	185.7	188.2	191.8	193.0	193.0	194.2	195.4	196.7	196.7
65°	163.9	167.5	168.7	172.4	172.4	173.6	174.8	176.0	176.0	176.0
67.5°	144.5	148.1	149.3	151.7	151.7	153.0	154.2	155.4	155.4	155.4
70°	126.2	127.5	129.9	131.1	132.3	132.3	133.5	134.7	136.0	134.7
72.5°	106.8	108.0	110.5	111.7	111.7	112.9	112.9	114.1	115.3	115.3
75°	87.4	89.8	91.0	92.3	93.5	93.5	94.7	95.9	95.9	95.9
77.5°	69.2	71.6	72.8	74.0	75.3	75.3	76.5	76.5	77.7	76.5
80°	53.4	54.6	55.8	57.1	58.3	58.3	59.5	60.7	60.7	60.7
82.5°	38.8	40.1	42.5	43.7	43.7	43.7	46.1	46.1	47.3	46.1
85°	26.7	27.9	30.3	31.6	32.8	32.8	32.8	34.0	35.2	34.0
87.5°	17.0	19.4	20.6	21.9	21.9	21.9	23.1	24.3	24.3	24.3
90°	9.7	9.7	10.9	12.1	12.1	13.4	13.4	14.6	14.6	14.6
92.5°	9.7	10.9	10.9	10.9	12.1	12.1	12.1	13.4	13.4	13.4
95°	82.5	59.5	34.0	26.7	23.1	23.1	21.9	23.1	21.9	21.9
97.5°	250.1	270.7	280.4	293.8	301.1	299.8	295.0	299.8	296.2	299.8
100°	355.7	375.1	389.7	393.3	400.6	404.2	417.6	427.3	432.2	438.2
102.5°	441.9	464.9	481.9	491.6	498.9	503.8	519.6	534.1	541.4	546.3
105°	520.8	545.1	565.7	575.4	583.9	588.8	605.7	622.7	633.7	639.7
107.5°	583.9	611.8	633.7	648.2	656.7	665.2	685.9	702.9	716.2	722.3
110°	641.0	668.9	691.9	708.9	718.6	727.1	750.2	769.6	784.2	791.5



TEST NUMBER: P395414

CATALOG NUMBER: I3-CL-50L82765-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	688.3	718.6	741.7	759.9	769.6	781.8	803.6	825.5	840.0	848.5
115°	727.1	758.7	783.0	802.4	813.3	824.3	849.7	871.6	886.2	892.2
117.5°	759.9	791.5	817.0	836.4	848.5	860.7	886.2	905.6	921.4	926.2
120°	786.6	818.2	843.7	865.5	877.7	888.6	912.9	933.5	948.1	951.7
122.5°	804.8	837.6	864.3	888.6	899.5	910.4	933.5	954.1	967.5	971.1
125°	818.2	852.2	878.9	904.4	915.3	926.2	948.1	968.7	979.6	984.5
127.5°	826.7	860.7	889.8	914.1	926.2	935.9	957.8	976.0	986.9	990.6
130°	829.1	864.3	893.4	918.9	929.9	939.6	960.2	978.4	988.1	990.6
132.5°	829.1	863.1	893.4	917.7	928.7	938.4	957.8	974.8	984.5	986.9
135°	824.3	857.0	887.4	911.7	922.6	932.3	951.7	966.3	976.0	977.2
137.5°	815.8	847.3	876.5	900.7	911.7	921.4	938.4	954.1	962.6	965.1
140°	804.8	834.0	863.1	886.2	897.1	905.6	922.6	935.9	944.4	946.9
142.5°	790.3	819.4	846.1	869.2	877.7	887.4	901.9	915.3	922.6	925.0
145°	774.5	802.4	826.7	847.3	857.0	865.5	878.9	891.0	898.3	900.7
147.5°	753.8	781.8	804.8	824.3	832.8	841.3	853.4	864.3	871.6	874.0
150°	728.4	753.8	778.1	796.3	804.8	813.3	825.5	835.2	842.5	843.7
152.5°	702.9	727.1	747.8	766.0	774.5	783.0	793.9	803.6	812.1	812.1
155°	678.6	699.2	718.6	734.4	741.7	749.0	759.9	768.4	775.7	775.7
157.5°	653.1	672.5	688.3	702.9	708.9	715.0	724.7	732.0	738.1	736.9
160°	628.8	643.4	657.9	670.1	676.2	681.0	688.3	694.4	700.4	699.2
162.5°	602.1	615.5	627.6	636.1	641.0	644.6	651.9	657.9	661.6	661.6
165°	571.8	583.9	594.8	603.3	608.2	610.6	616.7	620.3	624.0	624.0
167.5°	540.2	549.9	559.6	566.9	571.8	574.2	580.3	582.7	587.5	586.3
170°	508.6	515.9	523.2	529.3	531.7	534.1	539.0	541.4	543.8	543.8
172.5°	483.1	485.6	489.2	494.1	494.1	495.3	497.7	498.9	500.1	500.1
175°	468.6	469.8	469.8	469.8	469.8	469.8	471.0	469.8	471.0	469.8
177.5°	462.5	462.5	461.3	461.3	460.1	461.3	460.1	458.9	458.9	457.6
180°	460.1	460.1	460.1	460.1	460.1	460.1	460.1	460.1	460.1	460.1

(END OF REPORT)