

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: P395417

Luminaire Tested: **I3-CL-50L82765-1D-UNV-W2A-W-4 (5000K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395417  
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 (5000K)  
Description: CORELITE I3, CLEAR TOP COVER  
5000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4755.9 lumens  
Efficiency: N/A  
Efficacy: 131.0 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

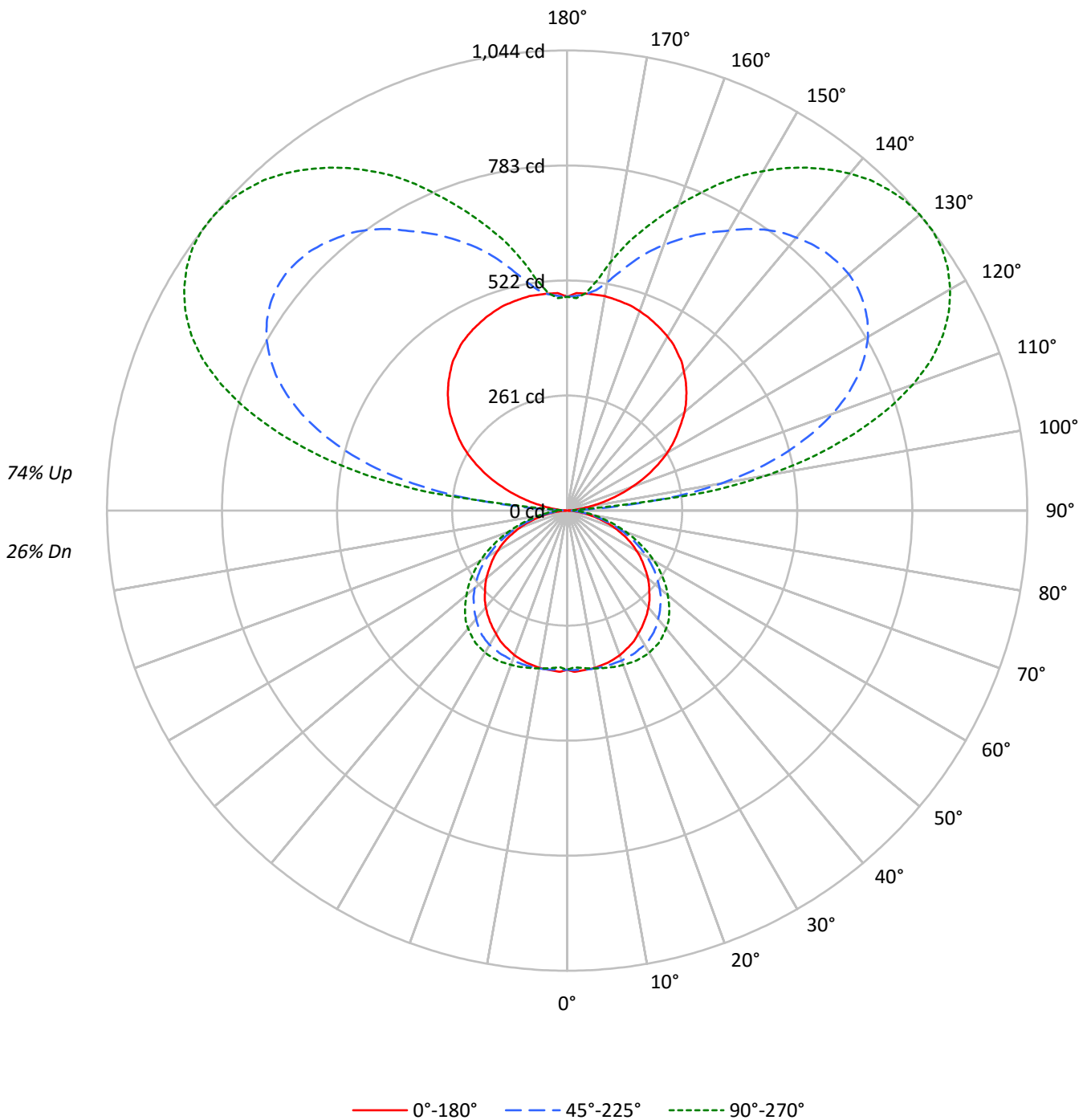
Input Watts (W): 36.3  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1984	1984	1984
5°	2005	1953	1921
10°	2006	1938	1916
15°	2009	1931	1925
20°	2013	1932	1943
25°	2009	1933	1968
30°	1998	1936	1982
35°	1993	1926	1984
40°	1986	1884	1959
45°	1965	1839	1910
50°	1947	1779	1825
55°	1908	1689	1720
60°	1860	1570	1588
65°	1784	1410	1408
70°	1658	1201	1192
75°	1431	955	957
80°	1109	679	701
85°	653	420	469



TEST NUMBER: P395417

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.5	0.7
10°-20°	102.6	2.2
20°-30°	164.5	3.5
30°-40°	210.4	4.4
40°-50°	229.4	4.8
50°-60°	214.9	4.5
60°-70°	166.7	3.5
70°-80°	95.6	2.0
80°-90°	30.6	0.6
90°-100°	122.7	2.6
100°-110°	476.8	10.0
110°-120°	649.2	13.6
120°-130°	673.9	14.2
130°-140°	597.7	12.6
140°-150°	463.8	9.8
150°-160°	309.5	6.5
160°-170°	165.0	3.5
170°-180°	48.3	1.0
0°-30°	301.6	6.3
0°-40°	512.0	10.8
0°-60°	956.2	20.1
0°-90°	1249.1	26.3
90°-120°	1248.7	26.3
90°-150°	2984.0	62.7
90°-180°	3507.0	73.7
0°-180°	4755.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	361	361	361	361	361	
5°	365	361	362	361	358	35
15°	357	356	364	369	369	101
25°	338	340	358	371	375	156
35°	306	312	340	358	365	192
45°	264	275	300	319	328	204
55°	211	223	243	260	265	189
65°	150	156	170	182	186	148
75°	78	82	90	98	101	83
85°	15	18	27	35	36	18
90°	1	4	9	13	15	2
95°	15	87	119	24	23	20
105°	101	306	518	616	674	108
115°	211	472	730	858	941	208
125°	306	557	822	965	1038	274
135°	383	586	829	973	1030	295
145°	436	586	778	904	950	273
155°	470	554	690	782	818	217
165°	489	509	586	641	658	138
175°	494	491	493	495	495	47
180°	485	485	485	485	485	



TEST NUMBER: P395417

CATALOG NUMBER: I3-CL-50L82765-1D-UNV-W2A-W-4 (5000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	360.9	360.9	360.9	360.9	360.9	360.9	360.9	360.9	360.9	360.9	360.9
2.5°	366.0	364.7	364.7	362.2	362.2	360.9	360.9	360.9	360.9	360.9	362.2
5°	364.7	364.7	363.5	362.2	362.2	360.9	360.9	360.9	360.9	360.9	362.2
7.5°	363.5	363.5	362.2	360.9	360.9	360.9	360.9	360.9	360.9	360.9	363.5
10°	362.2	362.2	360.9	359.6	359.6	359.6	359.6	360.9	360.9	360.9	363.5
12.5°	359.6	358.3	358.3	357.1	357.1	357.1	358.3	358.3	359.6	360.9	363.5
15°	357.1	357.1	355.8	354.5	355.8	355.8	355.8	357.1	358.3	359.6	363.5
17.5°	353.2	353.2	351.9	351.9	351.9	353.2	353.2	354.5	357.1	359.6	362.2
20°	349.4	348.1	348.1	348.1	349.4	349.4	350.7	353.2	354.5	358.3	362.2
22.5°	343.0	344.3	343.0	343.0	344.3	345.5	346.8	349.4	351.9	355.8	359.6
25°	337.9	337.9	337.9	337.9	340.4	340.4	343.0	345.5	349.4	353.2	358.3
27.5°	331.5	331.5	331.5	332.7	334.0	335.3	336.6	340.4	344.3	349.4	354.5
30°	322.5	322.5	322.5	322.5	326.3	327.6	330.2	335.3	339.1	345.5	351.9
32.5°	314.8	314.8	314.8	316.1	318.7	319.9	322.5	328.9	334.0	340.4	346.8
35°	305.9	305.9	307.1	307.1	311.0	312.3	314.8	319.9	325.1	332.7	340.4
37.5°	296.9	296.9	298.2	299.5	302.0	304.6	307.1	312.3	317.4	323.8	331.5
40°	286.7	286.7	288.0	289.2	293.1	295.6	298.2	303.3	308.4	314.8	321.2
42.5°	276.4	276.4	277.7	279.0	282.8	285.4	288.0	294.3	299.5	305.9	311.0
45°	263.6	264.9	266.2	268.8	272.6	275.2	277.7	282.8	289.2	294.3	299.5
47.5°	252.1	253.4	254.7	257.2	261.1	263.6	266.2	271.3	276.4	281.6	288.0
50°	239.3	240.6	241.9	244.4	248.3	250.8	253.4	258.5	263.6	267.5	273.9
52.5°	225.2	226.5	227.8	230.4	235.5	236.8	239.3	244.4	248.3	253.4	258.5
55°	211.2	212.4	213.7	216.3	220.1	222.7	224.0	229.1	232.9	238.0	243.2
57.5°	197.1	198.4	199.6	202.2	204.8	207.3	208.6	212.4	217.6	221.4	226.5
60°	181.7	183.0	184.3	185.6	189.4	190.7	192.0	195.8	199.6	204.8	208.6
62.5°	166.4	166.4	167.7	168.9	172.8	174.0	175.3	177.9	183.0	185.6	189.4
65°	149.7	149.7	151.0	152.3	154.9	156.1	157.4	160.0	163.8	166.4	170.2
67.5°	131.8	131.8	133.1	134.4	136.9	138.2	138.2	142.1	144.6	147.2	149.7
70°	115.2	115.2	116.5	116.5	117.7	119.0	120.3	122.9	124.1	128.0	129.3
72.5°	97.3	97.3	97.3	97.3	99.8	99.8	101.1	103.7	104.9	107.5	110.1
75°	78.1	78.1	79.3	79.3	80.6	81.9	83.2	84.5	87.0	88.3	89.6
77.5°	61.4	60.1	61.4	62.7	64.0	64.0	65.3	66.5	67.8	70.4	71.7
80°	43.5	43.5	43.5	44.8	46.1	46.1	47.4	48.6	49.9	52.5	53.8
82.5°	28.2	28.2	29.4	29.4	30.7	32.0	32.0	33.3	34.6	37.1	38.4
85°	15.4	15.4	15.4	16.6	17.9	17.9	19.2	20.5	23.0	24.3	26.9
87.5°	5.1	5.1	6.4	7.7	9.0	9.0	10.2	11.5	12.8	15.4	16.6
90°	1.3	1.3	1.3	2.6	2.6	3.8	3.8	5.1	6.4	7.7	9.0
92.5°	5.1	9.0	14.1	20.5	19.2	20.5	14.1	9.0	9.0	9.0	10.2
95°	15.4	23.0	37.1	58.9	76.8	87.0	96.0	104.9	122.9	124.1	119.0
97.5°	30.7	42.2	67.8	96.0	128.0	144.6	157.4	184.3	212.4	230.4	252.1
100°	51.2	67.8	101.1	139.5	176.6	198.4	218.8	257.2	291.8	322.5	355.8
102.5°	75.5	94.7	135.7	183.0	229.1	253.4	275.2	319.9	367.3	408.2	444.1
105°	101.1	122.9	171.5	225.2	277.7	305.9	332.7	381.4	431.3	476.1	518.3
107.5°	129.3	152.3	204.8	264.9	323.8	355.8	385.2	437.7	490.2	538.8	583.6
110°	156.1	181.7	236.8	302.0	368.6	400.6	430.0	487.6	542.6	593.8	641.2



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CATALOG NUMBER: I3-CL-50L82765-1D-UNV-W2A-W-4 (5000K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	184.3	211.2	266.2	337.9	405.7	439.0	469.7	531.1	588.7	641.2	688.5
115°	211.2	236.8	294.3	368.6	437.7	472.2	505.5	568.2	628.4	680.8	729.5
117.5°	236.8	261.1	319.9	394.2	465.8	500.4	533.7	598.9	659.1	714.1	761.5
120°	262.4	284.1	348.1	415.9	488.9	523.4	558.0	623.3	684.7	739.7	788.3
122.5°	285.4	305.9	368.6	435.1	506.8	542.6	575.9	642.4	705.2	760.2	807.5
125°	305.9	325.1	387.8	450.5	522.1	556.7	591.3	656.5	719.2	773.0	821.6
127.5°	326.3	345.5	401.9	465.8	532.4	568.2	601.5	666.8	728.2	783.2	830.6
130°	348.1	362.2	415.9	479.9	542.6	575.9	610.5	673.2	733.3	787.1	834.4
132.5°	366.0	378.8	430.0	491.4	550.3	582.3	613.0	675.7	735.9	787.1	833.1
135°	382.7	392.9	440.2	501.7	556.7	586.1	615.6	674.4	733.3	784.5	829.3
137.5°	398.0	408.2	449.2	509.4	561.8	587.4	615.6	670.6	726.9	778.1	820.3
140°	412.1	419.8	456.9	513.2	564.4	588.7	613.0	664.2	716.7	766.6	808.8
142.5°	426.2	432.6	463.3	515.8	565.7	588.7	611.7	656.5	705.2	753.8	796.0
145°	436.4	442.8	468.4	517.0	564.4	586.1	606.6	648.8	692.4	737.2	778.1
147.5°	447.9	453.0	473.5	514.5	560.5	581.0	600.2	638.6	678.3	719.2	757.6
150°	455.6	460.7	476.1	511.9	554.1	573.3	592.5	628.4	664.2	700.0	733.3
152.5°	463.3	467.1	479.9	508.1	546.5	564.4	582.3	616.9	650.1	682.1	711.6
155°	469.7	473.5	482.5	505.5	537.5	554.1	570.8	604.1	634.8	662.9	689.8
157.5°	476.1	478.6	485.0	501.7	527.3	542.6	558.0	587.4	615.6	643.7	665.5
160°	481.2	482.5	487.6	500.4	518.3	529.8	543.9	570.8	596.4	620.7	641.2
162.5°	486.3	486.3	490.2	497.8	510.6	518.3	528.5	551.6	574.6	596.4	615.6
165°	488.9	488.9	491.4	496.6	504.2	509.4	515.8	531.1	549.0	568.2	586.1
167.5°	491.4	491.4	492.7	495.3	500.4	503.0	505.5	515.8	527.3	541.3	555.4
170°	494.0	492.7	492.7	495.3	496.6	497.8	499.1	504.2	509.4	518.3	526.0
172.5°	494.0	492.7	492.7	494.0	494.0	494.0	494.0	495.3	496.6	501.7	504.2
175°	494.0	492.7	492.7	492.7	492.7	491.4	491.4	491.4	491.4	491.4	492.7
177.5°	494.0	492.7	491.4	491.4	490.2	490.2	488.9	488.9	487.6	487.6	487.6
180°	485.0	485.0	485.0	485.0	485.0	485.0	485.0	485.0	485.0	485.0	485.0



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	360.9	360.9	360.9	360.9	360.9	360.9	360.9	360.9	360.9	360.9
2.5°	362.2	362.2	360.9	360.9	359.6	359.6	358.3	357.1	355.8	355.8
5°	363.5	362.2	360.9	360.9	360.9	359.6	359.6	359.6	358.3	358.3
7.5°	363.5	363.5	363.5	362.2	362.2	362.2	362.2	362.2	360.9	360.9
10°	364.7	364.7	364.7	364.7	364.7	364.7	364.7	363.5	363.5	363.5
12.5°	364.7	364.7	364.7	366.0	366.0	366.0	366.0	366.0	366.0	366.0
15°	366.0	366.0	367.3	367.3	368.6	368.6	369.9	369.9	369.9	368.6
17.5°	364.7	366.0	367.3	368.6	369.9	369.9	371.1	371.1	371.1	371.1
20°	364.7	367.3	368.6	369.9	371.1	371.1	372.4	373.7	373.7	372.4
22.5°	363.5	366.0	367.3	369.9	371.1	371.1	373.7	373.7	373.7	373.7
25°	362.2	364.7	367.3	369.9	371.1	371.1	373.7	373.7	375.0	375.0
27.5°	359.6	362.2	366.0	368.6	369.9	371.1	372.4	373.7	373.7	373.7
30°	355.8	359.6	363.5	366.0	367.3	368.6	369.9	371.1	372.4	372.4
32.5°	350.7	354.5	358.3	362.2	363.5	364.7	367.3	368.6	368.6	368.6
35°	345.5	349.4	353.2	357.1	358.3	359.6	362.2	363.5	364.7	364.7
37.5°	337.9	341.7	345.5	349.4	350.7	353.2	355.8	357.1	357.1	357.1
40°	326.3	332.7	337.9	341.7	343.0	345.5	346.8	349.4	349.4	349.4
42.5°	316.1	321.2	325.1	330.2	331.5	335.3	337.9	339.1	340.4	340.4
45°	304.6	309.7	313.5	317.4	318.7	321.2	323.8	325.1	326.3	327.6
47.5°	293.1	296.9	300.7	304.6	305.9	308.4	311.0	312.3	313.5	313.5
50°	279.0	282.8	286.7	290.5	291.8	294.3	295.6	296.9	298.2	298.2
52.5°	263.6	267.5	271.3	275.2	276.4	277.7	280.3	281.6	282.8	282.8
55°	248.3	252.1	254.7	258.5	259.8	261.1	262.4	264.9	266.2	264.9
57.5°	230.4	234.2	236.8	240.6	241.9	243.2	244.4	245.7	247.0	247.0
60°	211.2	215.0	218.8	221.4	222.7	224.0	225.2	226.5	227.8	227.8
62.5°	192.0	195.8	198.4	202.2	203.5	203.5	204.8	206.0	207.3	207.3
65°	172.8	176.6	177.9	181.7	181.7	183.0	184.3	185.6	185.6	185.6
67.5°	152.3	156.1	157.4	160.0	160.0	161.3	162.5	163.8	163.8	163.8
70°	133.1	134.4	136.9	138.2	139.5	139.5	140.8	142.1	143.3	142.1
72.5°	112.6	113.9	116.5	117.7	117.7	119.0	119.0	120.3	121.6	121.6
75°	92.1	94.7	96.0	97.3	98.5	98.5	99.8	101.1	101.1	101.1
77.5°	72.9	75.5	76.8	78.1	79.3	79.3	80.6	80.6	81.9	80.6
80°	56.3	57.6	58.9	60.1	61.4	61.4	62.7	64.0	64.0	64.0
82.5°	41.0	42.2	44.8	46.1	46.1	46.1	48.6	48.6	49.9	48.6
85°	28.2	29.4	32.0	33.3	34.6	34.6	34.6	35.8	37.1	35.8
87.5°	17.9	20.5	21.8	23.0	23.0	23.0	24.3	25.6	25.6	25.6
90°	10.2	10.2	11.5	12.8	12.8	14.1	14.1	15.4	15.4	15.4
92.5°	10.2	11.5	11.5	11.5	12.8	12.8	12.8	14.1	14.1	14.1
95°	87.0	62.7	35.8	28.2	24.3	24.3	23.0	24.3	23.0	23.0
97.5°	263.6	285.4	295.6	309.7	317.4	316.1	311.0	316.1	312.3	316.1
100°	375.0	395.5	410.8	414.6	422.3	426.2	440.2	450.5	455.6	462.0
102.5°	465.8	490.2	508.1	518.3	526.0	531.1	547.7	563.1	570.8	575.9
105°	549.0	574.6	596.4	606.6	615.6	620.7	638.6	656.5	668.0	674.4
107.5°	615.6	645.0	668.0	683.4	692.4	701.3	723.1	741.0	755.1	761.5
110°	675.7	705.2	729.5	747.4	757.6	766.6	790.9	811.4	826.7	834.4





TEST NUMBER: P395417

CATALOG NUMBER: I3-CL-50L82765-1D-UNV-W2A-W-4 (5000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	725.6	757.6	781.9	801.1	811.4	824.2	847.2	870.2	885.6	894.6
115°	766.6	799.9	825.5	845.9	857.5	869.0	895.8	918.9	934.2	940.6
117.5°	801.1	834.4	861.3	881.8	894.6	907.4	934.2	954.7	971.4	976.5
120°	829.3	862.6	889.4	912.5	925.3	936.8	962.4	984.1	999.5	1003.3
122.5°	848.5	883.0	911.2	936.8	948.3	959.8	984.1	1005.9	1020.0	1023.8
125°	862.6	898.4	926.6	953.4	965.0	976.5	999.5	1021.3	1032.8	1037.9
127.5°	871.5	907.4	938.1	963.7	976.5	986.7	1009.7	1028.9	1040.5	1044.3
130°	874.1	911.2	941.9	968.8	980.3	990.5	1012.3	1031.5	1041.7	1044.3
132.5°	874.1	909.9	941.9	967.5	979.0	989.3	1009.7	1027.7	1037.9	1040.5
135°	869.0	903.5	935.5	961.1	972.6	982.9	1003.3	1018.7	1028.9	1030.2
137.5°	860.0	893.3	924.0	949.6	961.1	971.4	989.3	1005.9	1014.9	1017.4
140°	848.5	879.2	909.9	934.2	945.8	954.7	972.6	986.7	995.7	998.2
142.5°	833.1	863.9	892.0	916.3	925.3	935.5	950.9	965.0	972.6	975.2
145°	816.5	845.9	871.5	893.3	903.5	912.5	926.6	939.4	947.0	949.6
147.5°	794.7	824.2	848.5	869.0	877.9	886.9	899.7	911.2	918.9	921.4
150°	767.9	794.7	820.3	839.5	848.5	857.5	870.2	880.5	888.2	889.4
152.5°	741.0	766.6	788.3	807.5	816.5	825.5	837.0	847.2	856.2	856.2
155°	715.4	737.2	757.6	774.3	781.9	789.6	801.1	810.1	817.8	817.8
157.5°	688.5	709.0	725.6	741.0	747.4	753.8	764.0	771.7	778.1	776.8
160°	662.9	678.3	693.6	706.4	712.8	718.0	725.6	732.0	738.4	737.2
162.5°	634.8	648.8	661.6	670.6	675.7	679.6	687.2	693.6	697.5	697.5
165°	602.8	615.6	627.1	636.0	641.2	643.7	650.1	654.0	657.8	657.8
167.5°	569.5	579.7	590.0	597.7	602.8	605.3	611.7	614.3	619.4	618.1
170°	536.2	543.9	551.6	558.0	560.5	563.1	568.2	570.8	573.3	573.3
172.5°	509.4	511.9	515.8	520.9	520.9	522.1	524.7	526.0	527.3	527.3
175°	494.0	495.3	495.3	495.3	495.3	495.3	496.6	495.3	496.6	495.3
177.5°	487.6	487.6	486.3	486.3	485.0	486.3	485.0	483.8	483.8	482.5
180°	485.0	485.0	485.0	485.0	485.0	485.0	485.0	485.0	485.0	485.0

(END OF REPORT)