

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: P395418

Luminaire Tested: **I3-CL-50L82765-1D-UNV-W2A-W-4 (5700K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395418  
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 (5700K)  
Description: CORELITE I3, CLEAR TOP COVER  
5000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4815.9 lumens  
Efficiency: N/A  
Efficacy: 131.9 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

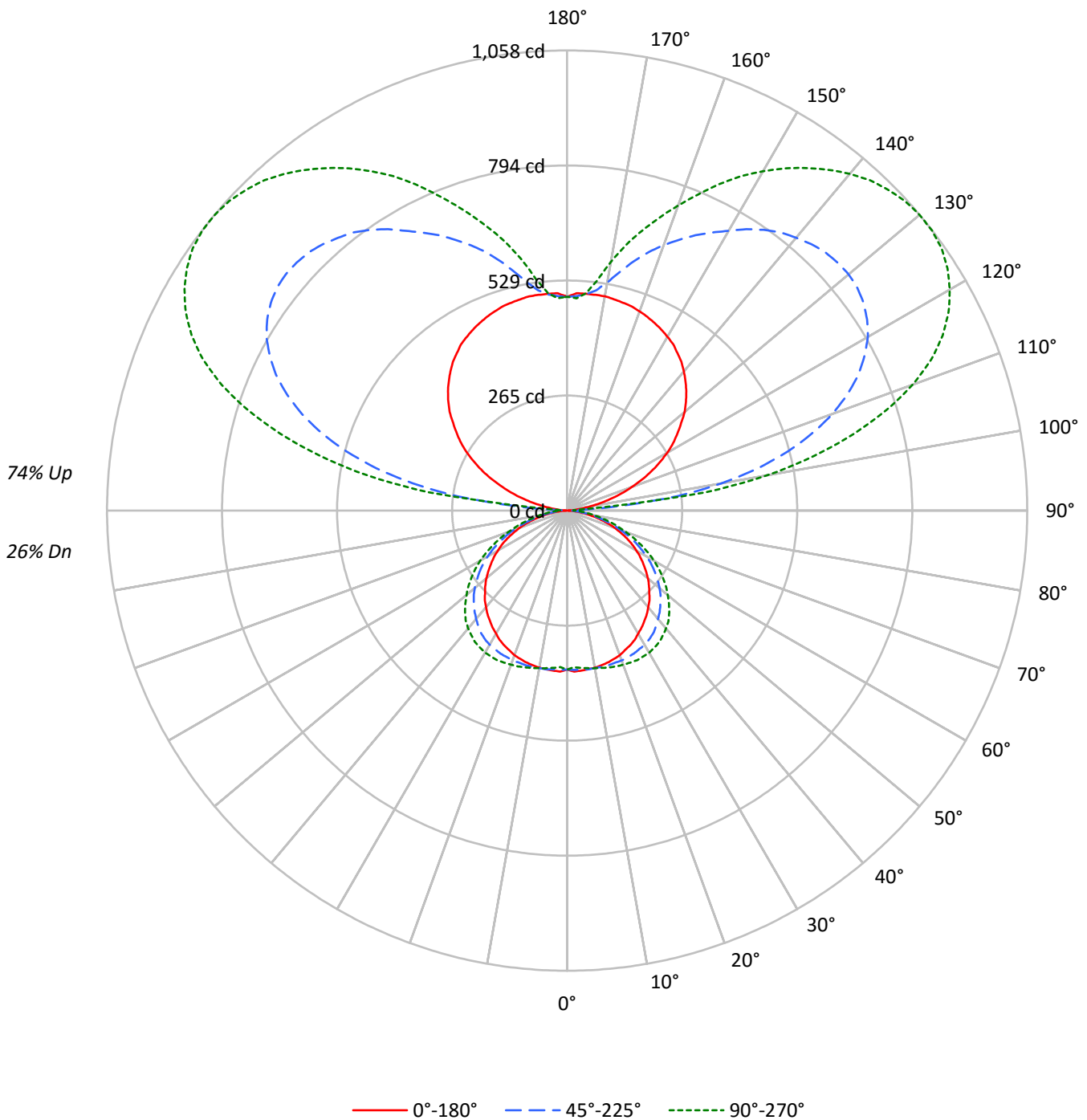
Input Watts (W): 36.5  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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CATALOG NUMBER: I3-CL-50L82765-1D-UNV-W2A-W-4 (5700K)

### 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°	2009	2009	2009
5°	2030	1977	1946
10°	2031	1962	1940
15°	2034	1955	1950
20°	2038	1956	1967
25°	2034	1958	1993
30°	2023	1961	2007
35°	2018	1950	2009
40°	2011	1908	1984
45°	1991	1862	1934
50°	1972	1801	1848
55°	1931	1710	1742
60°	1884	1590	1608
65°	1807	1428	1425
70°	1678	1216	1206
75°	1450	967	969
80°	1125	687	710
85°	662	425	476



TEST NUMBER: P395418

CATALOG NUMBER: I3-CL-50L82765-1D-UNV-W2A-W-4 (5700K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.0	0.7
10°-20°	103.9	2.2
20°-30°	166.5	3.5
30°-40°	213.0	4.4
40°-50°	232.3	4.8
50°-60°	217.6	4.5
60°-70°	168.8	3.5
70°-80°	96.8	2.0
80°-90°	30.9	0.6
90°-100°	124.2	2.6
100°-110°	482.8	10.0
110°-120°	657.4	13.6
120°-130°	682.4	14.2
130°-140°	605.3	12.6
140°-150°	469.6	9.8
150°-160°	313.4	6.5
160°-170°	167.1	3.5
170°-180°	48.9	1.0
0°-30°	305.4	6.3
0°-40°	518.4	10.8
0°-60°	968.3	20.1
0°-90°	1264.9	26.3
90°-120°	1264.4	26.3
90°-150°	3021.7	62.7
90°-180°	3551.0	73.7
0°-180°	4815.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	366	366	366	366	366	
5°	369	366	367	366	363	35
15°	362	360	368	373	373	102
25°	342	345	363	376	380	158
35°	310	316	345	363	369	194
45°	267	279	303	323	332	206
55°	214	226	246	263	268	191
65°	152	158	172	184	188	149
75°	79	83	91	100	102	84
85°	16	18	27	35	36	19
90°	1	4	9	13	16	2
95°	16	88	120	25	23	20
105°	102	310	525	623	683	109
115°	214	478	739	868	952	211
125°	310	564	832	977	1051	277
135°	388	594	840	985	1043	299
145°	442	594	788	915	962	277
155°	476	561	698	792	828	220
165°	495	516	594	649	666	140
175°	500	498	499	502	502	48
180°	491	491	491	491	491	



TEST NUMBER: P395418

CATALOG NUMBER: I3-CL-50L82765-1D-UNV-W2A-W-4 (5700K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5
2.5°	370.6	369.3	369.3	366.7	366.7	365.5	365.5	365.5	365.5	365.5	366.7
5°	369.3	369.3	368.0	366.7	366.7	365.5	365.5	365.5	365.5	365.5	366.7
7.5°	368.0	368.0	366.7	365.5	365.5	365.5	365.5	365.5	365.5	365.5	368.0
10°	366.7	366.7	365.5	364.2	364.2	364.2	364.2	365.5	365.5	365.5	368.0
12.5°	364.2	362.9	362.9	361.6	361.6	361.6	362.9	362.9	364.2	365.5	368.0
15°	361.6	361.6	360.3	359.0	360.3	360.3	360.3	361.6	362.9	364.2	368.0
17.5°	357.7	357.7	356.4	356.4	356.4	357.7	357.7	359.0	361.6	364.2	366.7
20°	353.8	352.5	352.5	352.5	353.8	353.8	355.1	357.7	359.0	362.9	366.7
22.5°	347.3	348.6	347.3	347.3	348.6	349.9	351.2	353.8	356.4	360.3	364.2
25°	342.1	342.1	342.1	342.1	344.7	344.7	347.3	349.9	353.8	357.7	362.9
27.5°	335.6	335.6	335.6	336.9	338.2	339.5	340.8	344.7	348.6	353.8	359.0
30°	326.6	326.6	326.6	326.6	330.5	331.8	334.4	339.5	343.4	349.9	356.4
32.5°	318.8	318.8	318.8	320.1	322.7	324.0	326.6	333.1	338.2	344.7	351.2
35°	309.7	309.7	311.0	311.0	314.9	316.2	318.8	324.0	329.2	336.9	344.7
37.5°	300.7	300.7	302.0	303.2	305.8	308.4	311.0	316.2	321.4	327.9	335.6
40°	290.3	290.3	291.6	292.9	296.8	299.4	302.0	307.1	312.3	318.8	325.3
42.5°	279.9	279.9	281.2	282.5	286.4	289.0	291.6	298.1	303.2	309.7	314.9
45°	267.0	268.3	269.6	272.1	276.0	278.6	281.2	286.4	292.9	298.1	303.2
47.5°	255.3	256.6	257.9	260.5	264.4	267.0	269.6	274.7	279.9	285.1	291.6
50°	242.3	243.6	244.9	247.5	251.4	254.0	256.6	261.8	267.0	270.8	277.3
52.5°	228.1	229.4	230.7	233.3	238.5	239.7	242.3	247.5	251.4	256.6	261.8
55°	213.8	215.1	216.4	219.0	222.9	225.5	226.8	232.0	235.9	241.0	246.2
57.5°	199.6	200.9	202.2	204.8	207.3	209.9	211.2	215.1	220.3	224.2	229.4
60°	184.0	185.3	186.6	187.9	191.8	193.1	194.4	198.3	202.2	207.3	211.2
62.5°	168.5	168.5	169.8	171.1	175.0	176.2	177.5	180.1	185.3	187.9	191.8
65°	151.6	151.6	152.9	154.2	156.8	158.1	159.4	162.0	165.9	168.5	172.4
67.5°	133.5	133.5	134.8	136.1	138.7	140.0	140.0	143.8	146.4	149.0	151.6
70°	116.6	116.6	117.9	117.9	119.2	120.5	121.8	124.4	125.7	129.6	130.9
72.5°	98.5	98.5	98.5	98.5	101.1	101.1	102.4	105.0	106.3	108.9	111.5
75°	79.1	79.1	80.3	80.3	81.6	82.9	84.2	85.5	88.1	89.4	90.7
77.5°	62.2	60.9	62.2	63.5	64.8	64.8	66.1	67.4	68.7	71.3	72.6
80°	44.1	44.1	44.1	45.4	46.7	46.7	47.9	49.2	50.5	53.1	54.4
82.5°	28.5	28.5	29.8	29.8	31.1	32.4	32.4	33.7	35.0	37.6	38.9
85°	15.6	15.6	15.6	16.8	18.1	18.1	19.4	20.7	23.3	24.6	27.2
87.5°	5.2	5.2	6.5	7.8	9.1	9.1	10.4	11.7	13.0	15.6	16.8
90°	1.3	1.3	1.3	2.6	2.6	3.9	3.9	5.2	6.5	7.8	9.1
92.5°	5.2	9.1	14.3	20.7	19.4	20.7	14.3	9.1	9.1	9.1	10.4
95°	15.6	23.3	37.6	59.6	77.8	88.1	97.2	106.3	124.4	125.7	120.5
97.5°	31.1	42.8	68.7	97.2	129.6	146.4	159.4	186.6	215.1	233.3	255.3
100°	51.8	68.7	102.4	141.3	178.8	200.9	221.6	260.5	295.5	326.6	360.3
102.5°	76.5	95.9	137.4	185.3	232.0	256.6	278.6	324.0	371.9	413.4	449.7
105°	102.4	124.4	173.7	228.1	281.2	309.7	336.9	386.2	436.7	482.1	524.9
107.5°	130.9	154.2	207.3	268.3	327.9	360.3	390.1	443.2	496.3	545.6	590.9
110°	158.1	184.0	239.7	305.8	373.2	405.6	435.4	493.7	549.5	601.3	649.3



TEST NUMBER: P395418

CATALOG NUMBER: I3-CL-50L82765-1D-UNV-W2A-W-4 (5700K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	186.6	213.8	269.6	342.1	410.8	444.5	475.6	537.8	596.1	649.3	697.2
115°	213.8	239.7	298.1	373.2	443.2	478.2	511.9	575.4	636.3	689.4	738.7
117.5°	239.7	264.4	324.0	399.1	471.7	506.7	540.4	606.5	667.4	723.1	771.1
120°	265.7	287.7	352.5	421.2	495.0	530.0	565.0	631.1	693.3	749.0	798.3
122.5°	289.0	309.7	373.2	440.6	513.2	549.5	583.2	650.6	714.1	769.8	817.7
125°	309.7	329.2	392.7	456.2	528.7	563.7	598.7	664.8	728.3	782.7	832.0
127.5°	330.5	349.9	406.9	471.7	539.1	575.4	609.1	675.2	737.4	793.1	841.1
130°	352.5	366.7	421.2	486.0	549.5	583.2	618.2	681.7	742.6	797.0	844.9
132.5°	370.6	383.6	435.4	497.6	557.3	589.6	620.8	684.3	745.2	797.0	843.7
135°	387.5	397.9	445.8	508.0	563.7	593.5	623.3	683.0	742.6	794.4	839.8
137.5°	403.0	413.4	454.9	515.8	568.9	594.8	623.3	679.1	736.1	787.9	830.7
140°	417.3	425.1	462.6	519.7	571.5	596.1	620.8	672.6	725.7	776.3	819.0
142.5°	431.5	438.0	469.1	522.3	572.8	596.1	619.5	664.8	714.1	763.3	806.1
145°	441.9	448.4	474.3	523.6	571.5	593.5	614.3	657.0	701.1	746.5	787.9
147.5°	453.6	458.8	479.5	521.0	567.6	588.4	607.8	646.7	686.8	728.3	767.2
150°	461.4	466.5	482.1	518.4	561.1	580.6	600.0	636.3	672.6	708.9	742.6
152.5°	469.1	473.0	486.0	514.5	553.4	571.5	589.6	624.6	658.3	690.7	720.5
155°	475.6	479.5	488.6	511.9	544.3	561.1	578.0	611.7	642.8	671.3	698.5
157.5°	482.1	484.7	491.2	508.0	533.9	549.5	565.0	594.8	623.3	651.9	673.9
160°	487.3	488.6	493.7	506.7	524.9	536.5	550.8	578.0	603.9	628.5	649.3
162.5°	492.5	492.5	496.3	504.1	517.1	524.9	535.2	558.5	581.9	603.9	623.3
165°	495.0	495.0	497.6	502.8	510.6	515.8	522.3	537.8	556.0	575.4	593.5
167.5°	497.6	497.6	498.9	501.5	506.7	509.3	511.9	522.3	533.9	548.2	562.4
170°	500.2	498.9	498.9	501.5	502.8	504.1	505.4	510.6	515.8	524.9	532.6
172.5°	500.2	498.9	498.9	500.2	500.2	500.2	500.2	501.5	502.8	508.0	510.6
175°	500.2	498.9	498.9	498.9	498.9	497.6	497.6	497.6	497.6	497.6	498.9
177.5°	500.2	498.9	497.6	497.6	496.3	496.3	495.0	495.0	493.7	493.7	493.7
180°	491.2	491.2	491.2	491.2	491.2	491.2	491.2	491.2	491.2	491.2	491.2



TEST NUMBER: P395418

CATALOG NUMBER: I3-CL-50L82765-1D-UNV-W2A-W-4 (5700K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5
2.5°	366.7	366.7	365.5	365.5	364.2	364.2	362.9	361.6	360.3	360.3
5°	368.0	366.7	365.5	365.5	365.5	364.2	364.2	364.2	362.9	362.9
7.5°	368.0	368.0	368.0	366.7	366.7	366.7	366.7	366.7	365.5	365.5
10°	369.3	369.3	369.3	369.3	369.3	369.3	369.3	368.0	368.0	368.0
12.5°	369.3	369.3	369.3	370.6	370.6	370.6	370.6	370.6	370.6	370.6
15°	370.6	370.6	371.9	371.9	373.2	373.2	374.5	374.5	374.5	373.2
17.5°	369.3	370.6	371.9	373.2	374.5	374.5	375.8	375.8	375.8	375.8
20°	369.3	371.9	373.2	374.5	375.8	375.8	377.1	378.4	378.4	377.1
22.5°	368.0	370.6	371.9	374.5	375.8	375.8	378.4	378.4	378.4	378.4
25°	366.7	369.3	371.9	374.5	375.8	375.8	378.4	378.4	379.7	379.7
27.5°	364.2	366.7	370.6	373.2	374.5	375.8	377.1	378.4	378.4	378.4
30°	360.3	364.2	368.0	370.6	371.9	373.2	374.5	375.8	377.1	377.1
32.5°	355.1	359.0	362.9	366.7	368.0	369.3	371.9	373.2	373.2	373.2
35°	349.9	353.8	357.7	361.6	362.9	364.2	366.7	368.0	369.3	369.3
37.5°	342.1	346.0	349.9	353.8	355.1	357.7	360.3	361.6	361.6	361.6
40°	330.5	336.9	342.1	346.0	347.3	349.9	351.2	353.8	353.8	353.8
42.5°	320.1	325.3	329.2	334.4	335.6	339.5	342.1	343.4	344.7	344.7
45°	308.4	313.6	317.5	321.4	322.7	325.3	327.9	329.2	330.5	331.8
47.5°	296.8	300.7	304.5	308.4	309.7	312.3	314.9	316.2	317.5	317.5
50°	282.5	286.4	290.3	294.2	295.5	298.1	299.4	300.7	302.0	302.0
52.5°	267.0	270.8	274.7	278.6	279.9	281.2	283.8	285.1	286.4	286.4
55°	251.4	255.3	257.9	261.8	263.1	264.4	265.7	268.3	269.6	268.3
57.5°	233.3	237.2	239.7	243.6	244.9	246.2	247.5	248.8	250.1	250.1
60°	213.8	217.7	221.6	224.2	225.5	226.8	228.1	229.4	230.7	230.7
62.5°	194.4	198.3	200.9	204.8	206.1	206.1	207.3	208.6	209.9	209.9
65°	175.0	178.8	180.1	184.0	184.0	185.3	186.6	187.9	187.9	187.9
67.5°	154.2	158.1	159.4	162.0	162.0	163.3	164.6	165.9	165.9	165.9
70°	134.8	136.1	138.7	140.0	141.3	141.3	142.6	143.8	145.1	143.8
72.5°	114.0	115.3	117.9	119.2	119.2	120.5	120.5	121.8	123.1	123.1
75°	93.3	95.9	97.2	98.5	99.8	99.8	101.1	102.4	102.4	102.4
77.5°	73.9	76.5	77.8	79.1	80.3	80.3	81.6	81.6	82.9	81.6
80°	57.0	58.3	59.6	60.9	62.2	62.2	63.5	64.8	64.8	64.8
82.5°	41.5	42.8	45.4	46.7	46.7	46.7	49.2	49.2	50.5	49.2
85°	28.5	29.8	32.4	33.7	35.0	35.0	35.0	36.3	37.6	36.3
87.5°	18.1	20.7	22.0	23.3	23.3	23.3	24.6	25.9	25.9	25.9
90°	10.4	10.4	11.7	13.0	13.0	14.3	14.3	15.6	15.6	15.6
92.5°	10.4	11.7	11.7	11.7	13.0	13.0	13.0	14.3	14.3	14.3
95°	88.1	63.5	36.3	28.5	24.6	24.6	23.3	24.6	23.3	23.3
97.5°	267.0	289.0	299.4	313.6	321.4	320.1	314.9	320.1	316.2	320.1
100°	379.7	400.4	416.0	419.9	427.7	431.5	445.8	456.2	461.4	467.8
102.5°	471.7	496.3	514.5	524.9	532.6	537.8	554.7	570.2	578.0	583.2
105°	556.0	581.9	603.9	614.3	623.3	628.5	646.7	664.8	676.5	683.0
107.5°	623.3	653.1	676.5	692.0	701.1	710.2	732.2	750.3	764.6	771.1
110°	684.3	714.1	738.7	756.8	767.2	776.3	800.9	821.6	837.2	844.9





TEST NUMBER: P395418

CATALOG NUMBER: I3-CL-50L82765-1D-UNV-W2A-W-4 (5700K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	734.8	767.2	791.8	811.3	821.6	834.6	857.9	881.2	896.8	905.9
115°	776.3	810.0	835.9	856.6	868.3	879.9	907.2	930.5	946.0	952.5
117.5°	811.3	844.9	872.2	892.9	905.9	918.8	946.0	966.8	983.6	988.8
120°	839.8	873.5	900.7	924.0	937.0	948.6	974.5	996.6	1012.1	1016.0
122.5°	859.2	894.2	922.7	948.6	960.3	971.9	996.6	1018.6	1032.9	1036.7
125°	873.5	909.7	938.3	965.5	977.1	988.8	1012.1	1034.2	1045.8	1051.0
127.5°	882.5	918.8	949.9	975.8	988.8	999.2	1022.5	1041.9	1053.6	1057.5
130°	885.1	922.7	953.8	981.0	992.7	1003.1	1025.1	1044.5	1054.9	1057.5
132.5°	885.1	921.4	953.8	979.7	991.4	1001.8	1022.5	1040.6	1051.0	1053.6
135°	879.9	914.9	947.3	973.2	984.9	995.3	1016.0	1031.6	1041.9	1043.2
137.5°	870.9	904.6	935.7	961.6	973.2	983.6	1001.8	1018.6	1027.7	1030.3
140°	859.2	890.3	921.4	946.0	957.7	966.8	984.9	999.2	1008.2	1010.8
142.5°	843.7	874.8	903.3	927.9	937.0	947.3	962.9	977.1	984.9	987.5
145°	826.8	856.6	882.5	904.6	914.9	924.0	938.3	951.2	959.0	961.6
147.5°	804.8	834.6	859.2	879.9	889.0	898.1	911.0	922.7	930.5	933.1
150°	777.6	804.8	830.7	850.1	859.2	868.3	881.2	891.6	899.4	900.7
152.5°	750.3	776.3	798.3	817.7	826.8	835.9	847.5	857.9	867.0	867.0
155°	724.4	746.5	767.2	784.0	791.8	799.6	811.3	820.3	828.1	828.1
157.5°	697.2	717.9	734.8	750.3	756.8	763.3	773.7	781.4	787.9	786.6
160°	671.3	686.8	702.4	715.4	721.8	727.0	734.8	741.3	747.8	746.5
162.5°	642.8	657.0	670.0	679.1	684.3	688.1	695.9	702.4	706.3	706.3
165°	610.4	623.3	635.0	644.1	649.3	651.9	658.3	662.2	666.1	666.1
167.5°	576.7	587.1	597.4	605.2	610.4	613.0	619.5	622.0	627.2	625.9
170°	543.0	550.8	558.5	565.0	567.6	570.2	575.4	578.0	580.6	580.6
172.5°	515.8	518.4	522.3	527.4	527.4	528.7	531.3	532.6	533.9	533.9
175°	500.2	501.5	501.5	501.5	501.5	501.5	502.8	501.5	502.8	501.5
177.5°	493.7	493.7	492.5	492.5	491.2	492.5	491.2	489.9	489.9	488.6
180°	491.2	491.2	491.2	491.2	491.2	491.2	491.2	491.2	491.2	491.2

(END OF REPORT)