

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: P395748

Luminaire Tested: **I3-UL-50L93050-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395748  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-656-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: I3-UL-50L93050-1D-UNV-W2A-W-4 (4500K)  
Description: CORELITE I3, OPEN TOP  
5000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4708.8 lumens  
Efficiency: N/A  
Efficacy: 127.3 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.54 / 1.55  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')  
CIE Type: Semi-Indirect

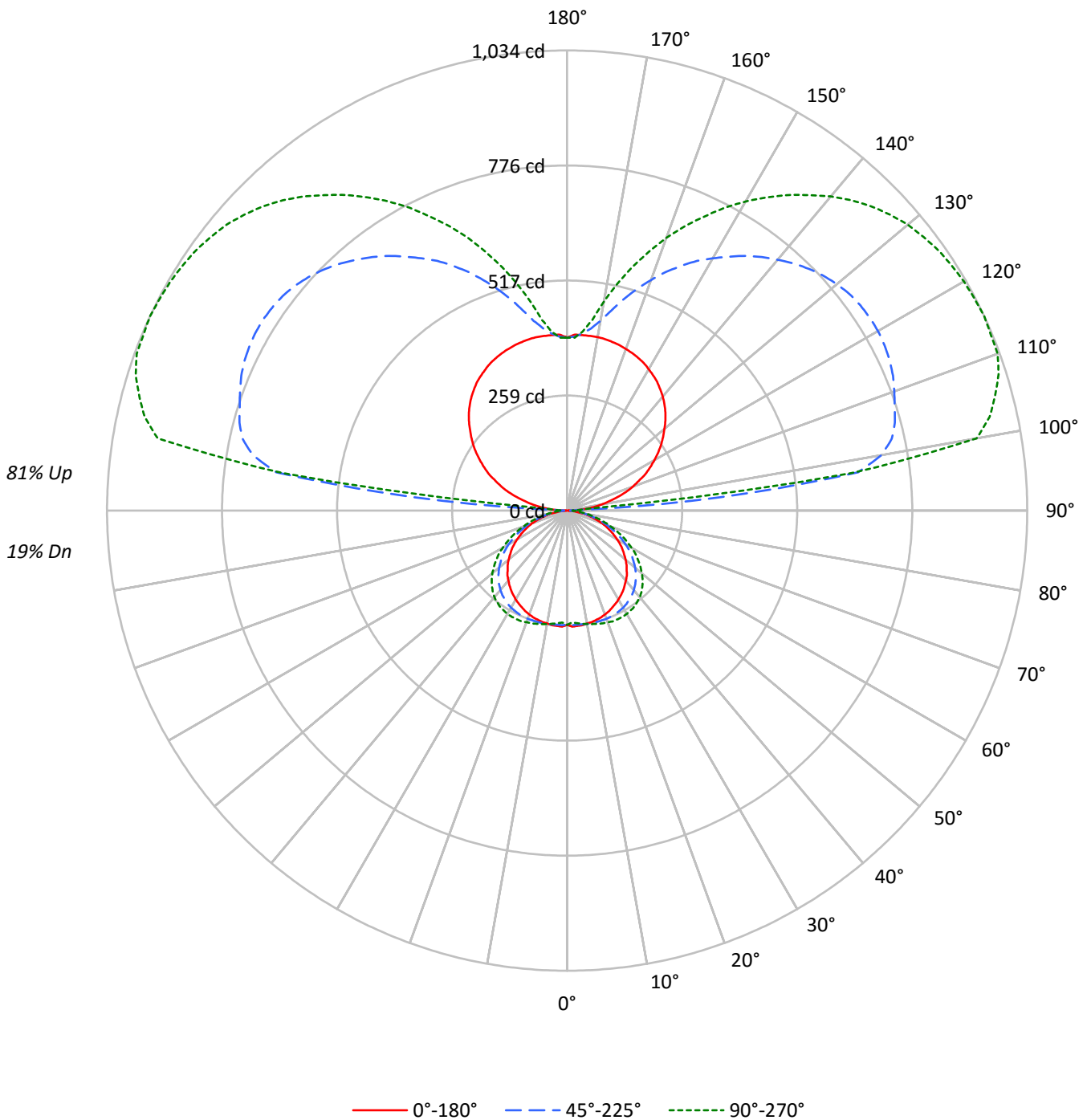
Input Watts (W): 37  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P395748

CATALOG NUMBER: I3-UL-50L93050-1D-UNV-W2A-W-4 (4500K)

### Luminous Intensity Polar Plot





TEST NUMBER: P395748

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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	50	30	10	0	
RCR																						
0	100	100	100	100	88	88	88	88	66	66	66	46	46	46	28	28	28	19				
1	91	87	83	79	80	76	73	71	58	56	54	40	39	38	24	24	23	16				
2	82	75	69	64	72	67	62	58	50	47	44	35	33	31	21	20	19	13				
3	75	66	59	53	66	58	52	48	44	40	37	31	28	26	19	17	16	11				
4	68	58	51	45	60	51	45	40	39	35	31	27	24	22	16	15	14	9				
5	63	51	44	38	55	46	39	34	35	30	26	24	21	19	15	13	12	8				
6	57	46	38	33	50	41	34	29	31	26	23	22	19	16	13	12	10	7				
7	53	41	34	28	46	37	30	25	28	23	20	20	17	14	12	10	9	6				
8	49	37	30	25	43	33	27	22	25	21	17	18	15	13	11	9	8	5				
9	45	34	26	22	40	30	24	20	23	18	15	16	13	11	10	8	7	5				
10	42	31	24	19	37	27	21	17	21	17	14	15	12	10	9	8	6	4				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1410	1410	1410
5°	1429	1389	1362
10°	1427	1380	1364
15°	1430	1375	1376
20°	1430	1380	1392
25°	1428	1384	1413
30°	1430	1386	1427
35°	1429	1379	1433
40°	1423	1369	1425
45°	1411	1340	1394
50°	1398	1296	1342
55°	1373	1234	1266
60°	1331	1144	1165
65°	1273	1019	1038
70°	1203	884	876
75°	1043	693	703
80°	829	499	508
85°	492	290	334



TEST NUMBER: P395748

CATALOG NUMBER: I3-UL-50L93050-1D-UNV-W2A-W-4 (4500K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	24.6	0.5
10°-20°	73.2	1.6
20°-30°	117.7	2.5
30°-40°	151.5	3.2
40°-50°	166.4	3.5
50°-60°	156.4	3.3
60°-70°	121.5	2.6
70°-80°	69.7	1.5
80°-90°	22.3	0.5
90°-100°	301.0	6.4
100°-110°	715.3	15.2
110°-120°	718.6	15.3
120°-130°	659.0	14.0
130°-140°	551.0	11.7
140°-150°	413.6	8.8
150°-160°	269.2	5.7
160°-170°	138.6	2.9
170°-180°	39.2	0.8
0°-30°	215.4	4.6
0°-40°	366.9	7.8
0°-60°	689.7	14.6
0°-90°	903.2	19.2
90°-120°	1734.9	36.8
90°-150°	3358.5	71.3
90°-180°	3806.0	80.8
0°-180°	4708.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	256	256	256	256	256	
5°	260	258	258	256	254	25
15°	254	253	259	262	263	72
25°	240	242	256	266	269	111
35°	219	225	244	259	263	137
45°	189	198	218	234	239	146
55°	152	160	178	190	195	136
65°	107	113	123	134	137	106
75°	57	59	65	72	74	61
85°	12	14	19	24	26	14
90°	1	4	7	10	12	4
95°	41	336	346	46	40	40
105°	117	451	762	940	996	124
115°	194	508	800	972	1034	190
125°	258	530	804	963	1019	230
135°	312	528	768	913	967	241
145°	353	506	699	820	866	221
155°	378	464	607	695	729	175
165°	392	419	492	545	566	111
175°	396	395	399	404	404	38
180°	389	389	389	389	389	



TEST NUMBER: P395748

CATALOG NUMBER: I3-UL-50L93050-1D-UNV-W2A-W-4 (4500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	256.5	256.5	256.5	256.5	256.5	256.5	256.5	256.5	256.5	256.5	256.5
2.5°	261.1	260.0	258.8	258.8	257.6	257.6	257.6	256.5	256.5	256.5	257.6
5°	260.0	260.0	258.8	257.6	257.6	257.6	256.5	256.5	256.5	256.5	257.6
7.5°	260.0	258.8	257.6	257.6	256.5	256.5	256.5	256.5	256.5	256.5	257.6
10°	257.6	257.6	256.5	256.5	255.3	256.5	256.5	256.5	256.5	256.5	258.8
12.5°	256.5	256.5	255.3	254.1	254.1	254.1	255.3	255.3	255.3	256.5	258.8
15°	254.1	254.1	253.0	253.0	253.0	253.0	254.1	254.1	255.3	256.5	258.8
17.5°	251.8	251.8	250.7	250.7	250.7	251.8	251.8	253.0	254.1	256.5	258.8
20°	248.3	248.3	248.3	248.3	248.3	249.5	249.5	250.7	253.0	255.3	258.8
22.5°	244.9	244.9	244.9	244.9	244.9	246.0	247.2	249.5	250.7	254.1	257.6
25°	240.2	240.2	240.2	240.2	241.4	242.5	243.7	246.0	248.3	251.8	256.5
27.5°	235.6	236.7	236.7	236.7	237.9	239.1	240.2	242.5	246.0	250.7	254.1
30°	230.9	230.9	230.9	232.1	233.3	234.4	236.7	239.1	242.5	247.2	251.8
32.5°	225.1	225.1	226.3	226.3	228.6	229.8	232.1	235.6	239.1	243.7	248.3
35°	219.3	219.3	219.3	221.7	222.8	225.1	226.3	229.8	234.4	239.1	243.7
37.5°	212.4	213.5	213.5	214.7	217.0	219.3	220.5	225.1	229.8	234.4	239.1
40°	205.4	206.6	206.6	207.7	211.2	212.4	214.7	219.3	222.8	228.6	233.3
42.5°	198.4	198.4	199.6	200.8	204.2	205.4	207.7	212.4	217.0	221.7	226.3
45°	189.2	190.3	191.5	192.6	196.1	198.4	200.8	204.2	208.9	213.5	218.2
47.5°	181.0	181.0	182.2	184.5	188.0	190.3	191.5	196.1	199.6	204.2	208.9
50°	171.8	172.9	172.9	175.2	178.7	181.0	182.2	186.8	190.3	195.0	199.6
52.5°	161.3	162.5	163.6	166.0	169.4	171.8	172.9	176.4	179.9	184.5	188.0
55°	152.0	153.2	153.2	155.5	159.0	160.1	162.5	164.8	169.4	172.9	177.6
57.5°	141.6	142.7	142.7	145.1	147.4	149.7	150.9	154.3	157.8	161.3	164.8
60°	130.0	131.1	132.3	133.5	135.8	138.1	139.3	141.6	145.1	148.5	152.0
62.5°	118.4	119.5	120.7	121.9	124.2	125.3	126.5	130.0	132.3	135.8	138.1
65°	106.8	107.9	109.1	110.2	111.4	112.6	113.7	116.0	118.4	121.9	123.0
67.5°	95.2	96.3	96.3	97.5	98.6	99.8	101.0	103.3	104.4	107.9	109.1
70°	83.6	83.6	83.6	84.7	84.7	85.9	87.0	89.4	90.5	92.8	95.2
72.5°	69.6	70.8	70.8	70.8	72.0	73.1	74.3	75.4	76.6	77.8	80.1
75°	56.9	58.0	56.9	58.0	59.2	59.2	60.3	61.5	62.7	63.8	65.0
77.5°	45.3	44.1	45.3	45.3	46.4	46.4	46.4	47.6	49.9	49.9	52.2
80°	32.5	32.5	32.5	32.5	33.7	33.7	34.8	34.8	37.1	38.3	39.5
82.5°	20.9	20.9	22.0	22.0	22.0	23.2	23.2	24.4	25.5	26.7	27.9
85°	11.6	11.6	11.6	12.8	12.8	13.9	13.9	15.1	16.2	17.4	18.6
87.5°	3.5	4.6	5.8	5.8	7.0	7.0	8.1	8.1	10.4	11.6	12.8
90°	1.2	1.2	2.3	2.3	2.3	3.5	3.5	4.6	4.6	5.8	7.0
92.5°	19.7	46.4	96.3	143.9	124.2	116.0	69.6	20.9	18.6	19.7	19.7
95°	40.6	76.6	140.4	227.5	294.8	336.5	364.4	417.8	472.3	463.0	345.8
97.5°	59.2	98.6	169.4	249.5	342.3	389.9	425.9	489.7	559.4	617.4	659.2
100°	77.8	118.4	193.8	277.4	363.2	406.2	448.0	535.0	603.5	661.5	717.2
102.5°	97.5	138.1	215.9	302.9	387.6	429.4	470.0	546.6	623.2	692.8	747.4
105°	117.2	159.0	235.6	324.9	409.7	451.4	490.9	564.0	634.8	699.8	762.4
107.5°	138.1	177.6	253.0	342.3	427.1	468.8	508.3	581.4	649.9	714.9	771.7
110°	156.7	195.0	270.4	358.6	443.3	485.1	524.5	597.7	665.0	726.5	782.2



TEST NUMBER: P395748

CATALOG NUMBER: I3-UL-50L93050-1D-UNV-W2A-W-4 (4500K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	174.1	211.2	286.6	372.5	456.1	497.9	536.1	609.3	676.6	736.9	792.6
115°	193.8	226.3	302.9	385.3	467.7	508.3	546.6	618.5	685.9	745.0	799.6
117.5°	210.0	241.4	316.8	395.7	477.0	516.4	553.6	625.5	691.7	750.8	804.2
120°	226.3	255.3	329.6	405.0	483.9	522.2	559.4	630.1	696.3	754.3	806.5
122.5°	242.5	269.2	340.0	414.3	489.7	528.0	564.0	633.6	698.6	755.5	806.5
125°	257.6	280.8	349.3	421.3	493.2	530.3	565.2	633.6	697.5	753.2	804.2
127.5°	271.6	293.6	356.3	428.2	495.5	531.5	565.2	631.3	695.1	749.7	799.6
130°	285.5	305.2	363.2	431.7	497.9	530.3	562.8	626.7	689.3	743.9	791.5
132.5°	299.4	318.0	369.0	435.2	499.0	530.3	560.5	622.0	682.4	735.8	781.0
135°	312.2	327.3	374.8	437.5	497.9	528.0	555.9	613.9	671.9	724.1	768.2
137.5°	323.8	336.5	379.5	438.7	496.7	524.5	552.4	604.6	659.2	710.2	753.2
140°	334.2	345.8	381.8	438.7	492.0	519.9	545.4	595.3	645.2	694.0	735.8
142.5°	343.5	354.0	385.3	436.3	487.4	514.1	538.5	586.0	631.3	677.7	718.3
145°	352.8	360.9	387.6	435.2	481.6	506.0	529.2	574.4	618.5	660.3	698.6
147.5°	359.8	367.9	389.9	430.5	474.6	496.7	518.7	561.7	602.3	641.8	676.6
150°	366.7	373.7	391.1	425.9	466.5	486.2	506.0	546.6	586.0	622.0	654.5
152.5°	373.7	378.3	394.6	421.3	457.2	475.8	495.5	531.5	567.5	601.1	632.5
155°	378.3	381.8	395.7	416.6	448.0	464.2	480.4	514.1	546.6	577.9	606.9
157.5°	383.0	386.4	396.9	413.1	437.5	452.6	466.5	495.5	525.7	553.6	580.2
160°	386.4	388.8	396.9	410.8	428.2	438.7	451.4	478.1	503.7	528.0	551.2
162.5°	389.9	391.1	396.9	407.3	420.1	427.1	436.3	457.2	480.4	501.3	522.2
165°	392.2	393.4	396.9	405.0	413.1	418.9	423.6	438.7	456.1	474.6	492.0
167.5°	394.6	394.6	396.9	402.7	407.3	410.8	414.3	422.4	434.0	448.0	460.7
170°	395.7	395.7	396.9	400.4	403.9	405.0	407.3	412.0	417.8	424.7	432.9
172.5°	395.7	395.7	395.7	398.0	399.2	399.2	399.2	401.5	405.0	409.7	413.1
175°	395.7	394.6	394.6	395.7	394.6	394.6	394.6	394.6	395.7	398.0	399.2
177.5°	395.7	394.6	393.4	393.4	392.2	392.2	391.1	391.1	391.1	391.1	391.1
180°	388.8	388.8	388.8	388.8	388.8	388.8	388.8	388.8	388.8	388.8	388.8



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CATALOG NUMBER: I3-UL-50L93050-1D-UNV-W2A-W-4 (4500K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	256.5	256.5	256.5	256.5	256.5	256.5	256.5	256.5	256.5	256.5
2.5°	257.6	257.6	256.5	255.3	255.3	255.3	254.1	253.0	251.8	251.8
5°	257.6	257.6	256.5	256.5	256.5	256.5	255.3	255.3	254.1	254.1
7.5°	258.8	257.6	257.6	257.6	257.6	257.6	257.6	257.6	256.5	256.5
10°	258.8	258.8	258.8	258.8	258.8	258.8	258.8	258.8	258.8	258.8
12.5°	260.0	260.0	260.0	260.0	261.1	261.1	261.1	261.1	261.1	261.1
15°	260.0	261.1	262.3	262.3	262.3	263.4	263.4	263.4	263.4	263.4
17.5°	261.1	262.3	263.4	263.4	264.6	264.6	265.8	265.8	265.8	265.8
20°	261.1	262.3	263.4	264.6	265.8	265.8	266.9	268.1	268.1	266.9
22.5°	260.0	262.3	263.4	264.6	265.8	266.9	268.1	269.2	269.2	269.2
25°	258.8	261.1	263.4	265.8	265.8	266.9	269.2	269.2	269.2	269.2
27.5°	257.6	260.0	262.3	264.6	265.8	266.9	268.1	269.2	269.2	269.2
30°	255.3	258.8	261.1	263.4	264.6	265.8	266.9	268.1	268.1	268.1
32.5°	251.8	255.3	257.6	261.1	262.3	263.4	264.6	265.8	265.8	265.8
35°	248.3	251.8	254.1	257.6	258.8	260.0	262.3	262.3	263.4	263.4
37.5°	242.5	247.2	249.5	253.0	254.1	255.3	257.6	258.8	258.8	258.8
40°	236.7	241.4	243.7	247.2	248.3	249.5	251.8	253.0	254.1	254.1
42.5°	229.8	234.4	236.7	240.2	241.4	242.5	244.9	246.0	247.2	247.2
45°	222.8	226.3	228.6	232.1	234.4	234.4	236.7	237.9	239.1	239.1
47.5°	213.5	217.0	219.3	222.8	225.1	226.3	227.5	228.6	229.8	229.8
50°	203.1	206.6	210.0	212.4	214.7	214.7	217.0	218.2	219.3	219.3
52.5°	192.6	195.0	198.4	201.9	203.1	204.2	205.4	206.6	207.7	207.7
55°	181.0	183.4	186.8	189.2	190.3	191.5	192.6	193.8	195.0	195.0
57.5°	168.3	170.6	174.1	176.4	177.6	178.7	179.9	181.0	182.2	182.2
60°	154.3	156.7	160.1	162.5	163.6	163.6	166.0	167.1	167.1	167.1
62.5°	140.4	142.7	145.1	147.4	148.5	149.7	150.9	152.0	152.0	152.0
65°	126.5	128.8	131.1	132.3	133.5	133.5	134.6	135.8	136.9	136.9
67.5°	111.4	113.7	116.0	117.2	118.4	118.4	119.5	120.7	120.7	120.7
70°	96.3	97.5	99.8	101.0	102.1	102.1	104.4	104.4	104.4	104.4
72.5°	81.2	82.4	84.7	85.9	87.0	87.0	88.2	89.4	89.4	89.4
75°	67.3	68.5	69.6	72.0	72.0	72.0	73.1	74.3	74.3	74.3
77.5°	53.4	54.5	55.7	56.9	58.0	58.0	59.2	60.3	60.3	60.3
80°	40.6	41.8	42.9	44.1	44.1	45.3	45.3	46.4	46.4	46.4
82.5°	29.0	30.2	31.3	32.5	33.7	33.7	34.8	36.0	36.0	34.8
85°	19.7	22.0	23.2	24.4	24.4	24.4	25.5	26.7	26.7	25.5
87.5°	13.9	13.9	15.1	16.2	16.2	17.4	17.4	18.6	18.6	18.6
90°	8.1	8.1	9.3	9.3	10.4	10.4	10.4	11.6	11.6	11.6
92.5°	19.7	19.7	20.9	20.9	20.9	20.9	22.0	22.0	22.0	22.0
95°	211.2	95.2	80.1	48.7	46.4	40.6	39.5	40.6	40.6	39.5
97.5°	709.1	759.0	790.3	805.4	786.8	767.1	745.0	741.6	711.4	644.1
100°	764.8	804.2	842.5	869.2	879.7	888.9	909.8	922.6	928.4	934.2
102.5°	792.6	834.4	868.0	901.7	915.6	928.4	947.0	962.0	967.9	972.5
105°	817.0	859.9	897.1	927.2	940.0	951.6	970.2	984.1	994.5	995.7
107.5°	822.8	868.0	909.8	947.0	962.0	974.8	996.9	1007.3	1016.6	1016.6
110°	833.2	876.2	914.5	948.1	963.2	978.3	1001.5	1017.8	1027.0	1029.4





TEST NUMBER: P395748

CATALOG NUMBER: I3-UL-50L93050-1D-UNV-W2A-W-4 (4500K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	841.4	885.5	921.4	955.1	967.9	981.8	1003.8	1018.9	1027.0	1030.5
115°	848.3	891.3	927.2	958.6	972.5	986.4	1008.5	1021.2	1030.5	1034.0
117.5°	853.0	894.7	930.7	959.7	974.8	986.4	1007.3	1021.2	1030.5	1031.7
120°	854.1	895.9	930.7	959.7	972.5	985.3	1006.1	1020.1	1029.4	1029.4
122.5°	854.1	894.7	929.6	957.4	969.0	980.6	1000.3	1016.6	1024.7	1024.7
125°	849.5	890.1	923.8	951.6	963.2	973.7	994.5	1009.6	1017.8	1018.9
127.5°	842.5	882.0	915.6	943.5	955.1	964.4	986.4	1000.3	1008.5	1009.6
130°	833.2	872.7	905.2	931.9	943.5	953.9	972.5	987.6	996.9	999.2
132.5°	822.8	859.9	892.4	918.0	929.6	938.8	957.4	972.5	980.6	984.1
135°	810.0	844.8	876.2	901.7	913.3	922.6	940.0	955.1	963.2	966.7
137.5°	793.8	827.4	857.6	883.1	893.6	902.9	920.3	934.2	941.2	945.8
140°	775.2	806.5	837.9	861.1	871.5	880.8	895.9	911.0	918.0	921.4
142.5°	755.5	786.8	814.7	837.9	847.2	856.4	871.5	885.5	892.4	893.6
145°	734.6	764.8	790.3	812.3	820.5	829.8	843.7	857.6	864.6	865.7
147.5°	711.4	739.2	763.6	784.5	793.8	800.7	813.5	826.3	833.2	834.4
150°	684.7	710.2	732.3	753.2	761.3	768.2	782.2	793.8	800.7	801.9
152.5°	659.2	683.5	702.1	720.7	728.8	735.8	747.4	759.0	765.9	767.1
155°	632.5	654.5	673.1	688.2	695.1	702.1	711.4	721.8	727.6	728.8
157.5°	604.6	625.5	641.8	655.7	662.6	668.4	676.6	685.9	689.3	691.7
160°	574.4	591.9	605.8	619.7	625.5	631.3	639.4	646.4	651.0	652.2
162.5°	542.0	557.0	568.6	581.4	584.9	589.5	597.7	604.6	608.1	609.3
165°	508.3	522.2	532.7	543.1	545.4	548.9	554.7	561.7	564.0	566.3
167.5°	474.6	486.2	493.2	502.5	506.0	508.3	514.1	518.7	521.1	522.2
170°	442.1	450.3	456.1	463.0	464.2	467.7	471.2	475.8	477.0	477.0
172.5°	416.6	420.1	423.6	425.9	427.1	428.2	430.5	431.7	431.7	431.7
175°	400.4	402.7	402.7	403.9	403.9	403.9	403.9	403.9	403.9	403.9
177.5°	391.1	391.1	391.1	389.9	389.9	389.9	389.9	388.8	388.8	388.8
180°	388.8	388.8	388.8	388.8	388.8	388.8	388.8	388.8	388.8	388.8

(END OF REPORT)