

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: P395747

Luminaire Tested: **I3-UL-50L93050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395747  
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 (4000K)  
Description: CORELITE I3, OPEN TOP  
5000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4628.2 lumens  
Efficiency: N/A  
Efficacy: 127.1 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

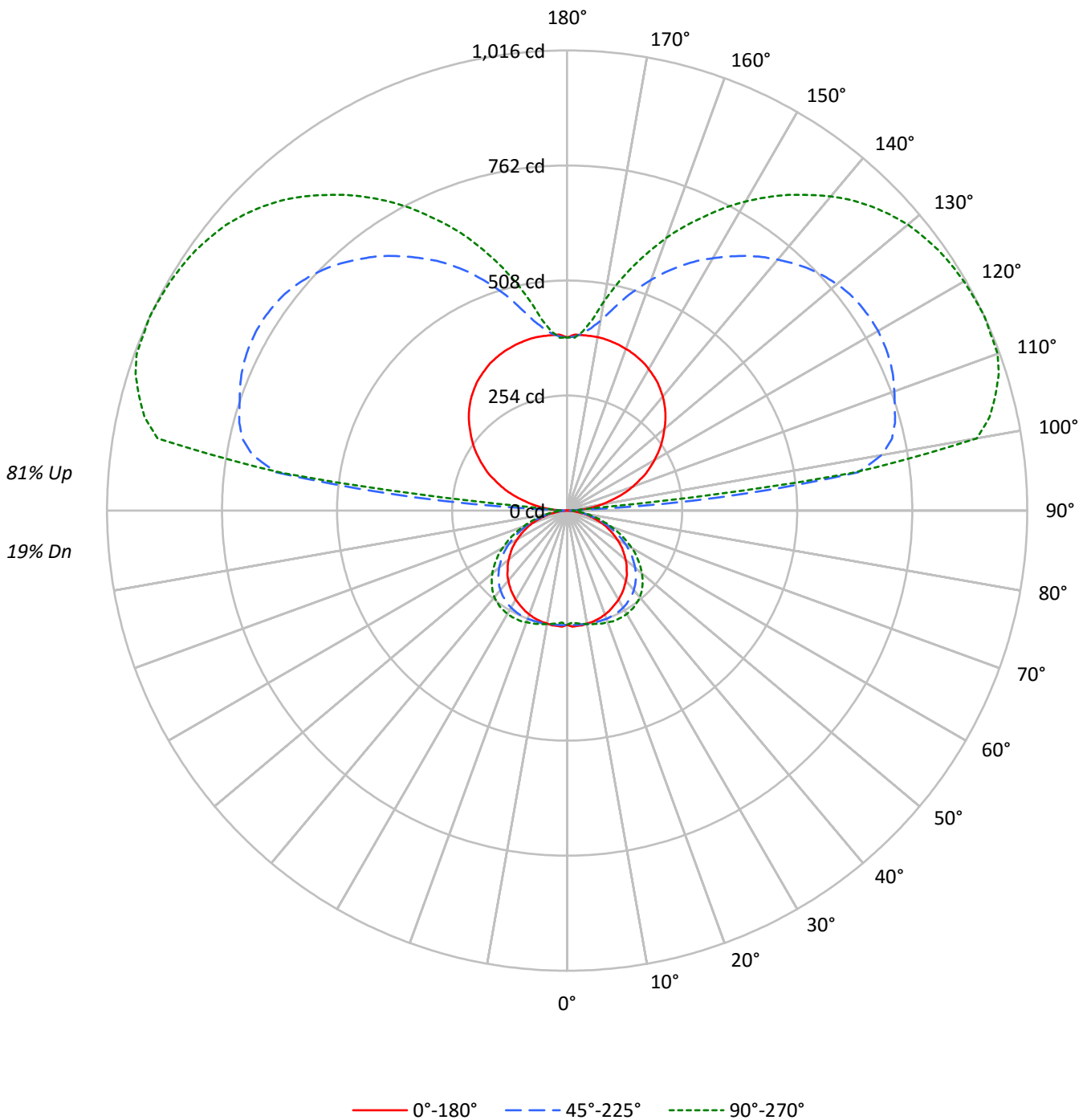
Input Watts (W): 36.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P395747

CATALOG NUMBER: I3-UL-50L93050-1D-UNV-W2A-W-4 (4000K)

### Luminous Intensity Polar Plot





TEST NUMBER: P395747

CATALOG NUMBER: I3-UL-50L93050-1D-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	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°	1386	1386	1386
5°	1404	1365	1339
10°	1403	1356	1341
15°	1405	1351	1352
20°	1406	1357	1368
25°	1404	1360	1389
30°	1406	1362	1402
35°	1405	1355	1408
40°	1399	1345	1401
45°	1386	1317	1370
50°	1374	1274	1319
55°	1350	1212	1244
60°	1307	1125	1144
65°	1250	1002	1021
70°	1181	868	861
75°	1024	681	691
80°	813	490	499
85°	484	284	329



TEST NUMBER: P395747

CATALOG NUMBER: I3-UL-50L93050-1D-UNV-W2A-W-4 (4000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	24.1	0.5
10°-20°	71.9	1.6
20°-30°	115.7	2.5
30°-40°	148.9	3.2
40°-50°	163.5	3.5
50°-60°	153.7	3.3
60°-70°	119.4	2.6
70°-80°	68.5	1.5
80°-90°	22.0	0.5
90°-100°	295.9	6.4
100°-110°	703.1	15.2
110°-120°	706.3	15.3
120°-130°	647.7	14.0
130°-140°	541.6	11.7
140°-150°	406.5	8.8
150°-160°	264.6	5.7
160°-170°	136.3	2.9
170°-180°	38.6	0.8
0°-30°	211.8	4.6
0°-40°	360.6	7.8
0°-60°	677.9	14.6
0°-90°	887.8	19.2
90°-120°	1705.2	36.8
90°-150°	3300.9	71.3
90°-180°	3740.0	80.8
0°-180°	4628.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	252	252	252	252	252	
5°	256	253	253	252	250	24
15°	250	249	254	258	259	71
25°	236	238	252	261	265	109
35°	216	221	240	254	259	135
45°	186	195	214	230	235	144
55°	149	157	174	187	192	133
65°	105	111	121	131	135	104
75°	56	58	64	71	73	60
85°	11	14	18	24	25	13
90°	1	3	7	10	11	3
95°	40	331	340	46	39	40
105°	115	444	749	924	979	122
115°	190	500	786	956	1016	187
125°	253	521	790	947	1002	226
135°	307	519	755	898	950	236
145°	347	497	687	806	851	217
155°	372	456	596	683	716	172
165°	386	412	484	536	557	109
175°	389	388	392	397	397	37
180°	382	382	382	382	382	



TEST NUMBER: P395747

CATALOG NUMBER: I3-UL-50L93050-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	252.1	252.1	252.1	252.1	252.1	252.1	252.1	252.1	252.1	252.1	252.1
2.5°	256.6	255.5	254.4	254.4	253.2	253.2	253.2	252.1	252.1	252.1	253.2
5°	255.5	255.5	254.4	253.2	253.2	253.2	252.1	252.1	252.1	252.1	253.2
7.5°	255.5	254.4	253.2	253.2	252.1	252.1	252.1	252.1	252.1	252.1	253.2
10°	253.2	253.2	252.1	252.1	250.9	252.1	252.1	252.1	252.1	252.1	254.4
12.5°	252.1	252.1	250.9	249.8	249.8	249.8	250.9	250.9	250.9	252.1	254.4
15°	249.8	249.8	248.7	248.7	248.7	248.7	249.8	249.8	250.9	252.1	254.4
17.5°	247.5	247.5	246.4	246.4	246.4	247.5	247.5	248.7	249.8	252.1	254.4
20°	244.1	244.1	244.1	244.1	244.1	245.2	245.2	246.4	248.7	250.9	254.4
22.5°	240.7	240.7	240.7	240.7	240.7	241.8	243.0	245.2	246.4	249.8	253.2
25°	236.1	236.1	236.1	236.1	237.2	238.4	239.5	241.8	244.1	247.5	252.1
27.5°	231.5	232.7	232.7	232.7	233.8	235.0	236.1	238.4	241.8	246.4	249.8
30°	227.0	227.0	227.0	228.1	229.3	230.4	232.7	235.0	238.4	243.0	247.5
32.5°	221.3	221.3	222.4	222.4	224.7	225.8	228.1	231.5	235.0	239.5	244.1
35°	215.6	215.6	215.6	217.9	219.0	221.3	222.4	225.8	230.4	235.0	239.5
37.5°	208.7	209.9	209.9	211.0	213.3	215.6	216.7	221.3	225.8	230.4	235.0
40°	201.9	203.0	203.0	204.2	207.6	208.7	211.0	215.6	219.0	224.7	229.3
42.5°	195.0	195.0	196.2	197.3	200.7	201.9	204.2	208.7	213.3	217.9	222.4
45°	185.9	187.1	188.2	189.3	192.8	195.0	197.3	200.7	205.3	209.9	214.4
47.5°	177.9	177.9	179.1	181.4	184.8	187.1	188.2	192.8	196.2	200.7	205.3
50°	168.8	170.0	170.0	172.2	175.7	177.9	179.1	183.6	187.1	191.6	196.2
52.5°	158.5	159.7	160.8	163.1	166.5	168.8	170.0	173.4	176.8	181.4	184.8
55°	149.4	150.6	150.6	152.8	156.3	157.4	159.7	162.0	166.5	170.0	174.5
57.5°	139.2	140.3	140.3	142.6	144.9	147.1	148.3	151.7	155.1	158.5	162.0
60°	127.7	128.9	130.0	131.2	133.5	135.7	136.9	139.2	142.6	146.0	149.4
62.5°	116.3	117.5	118.6	119.8	122.0	123.2	124.3	127.7	130.0	133.5	135.7
65°	104.9	106.1	107.2	108.4	109.5	110.6	111.8	114.1	116.3	119.8	120.9
67.5°	93.5	94.7	94.7	95.8	97.0	98.1	99.2	101.5	102.7	106.1	107.2
70°	82.1	82.1	82.1	83.3	83.3	84.4	85.5	87.8	89.0	91.2	93.5
72.5°	68.4	69.6	69.6	69.6	70.7	71.9	73.0	74.1	75.3	76.4	78.7
75°	55.9	57.0	55.9	57.0	58.2	58.2	59.3	60.5	61.6	62.7	63.9
77.5°	44.5	43.3	44.5	44.5	45.6	45.6	45.6	46.8	49.0	49.0	51.3
80°	31.9	31.9	31.9	31.9	33.1	33.1	34.2	34.2	36.5	37.6	38.8
82.5°	20.5	20.5	21.7	21.7	21.7	22.8	22.8	24.0	25.1	26.2	27.4
85°	11.4	11.4	11.4	12.5	12.5	13.7	13.7	14.8	16.0	17.1	18.2
87.5°	3.4	4.6	5.7	5.7	6.8	6.8	8.0	8.0	10.3	11.4	12.5
90°	1.1	1.1	2.3	2.3	2.3	3.4	3.4	4.6	4.6	5.7	6.8
92.5°	19.4	45.6	94.7	141.4	122.0	114.1	68.4	20.5	18.2	19.4	19.4
95°	39.9	75.3	138.0	223.6	289.7	330.8	358.2	410.6	464.2	455.1	339.9
97.5°	58.2	97.0	166.5	245.2	336.5	383.2	418.6	481.3	549.8	606.8	647.9
100°	76.4	116.3	190.5	272.6	357.0	399.2	440.3	525.8	593.1	650.1	704.9
102.5°	95.8	135.7	212.2	297.7	381.0	422.0	461.9	537.2	612.5	680.9	734.6
105°	115.2	156.3	231.5	319.4	402.6	443.7	482.5	554.3	623.9	687.8	749.4
107.5°	135.7	174.5	248.7	336.5	419.7	460.8	499.6	571.4	638.7	702.6	758.5
110°	154.0	191.6	265.8	352.4	435.7	476.8	515.6	587.4	653.6	714.0	768.8



TEST NUMBER: P395747

CATALOG NUMBER: I3-UL-50L93050-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	171.1	207.6	281.7	366.1	448.3	489.3	527.0	598.8	665.0	724.3	779.0
115°	190.5	222.4	297.7	378.7	459.7	499.6	537.2	607.9	674.1	732.3	785.9
117.5°	206.5	237.2	311.4	388.9	468.8	507.6	544.1	614.8	679.8	738.0	790.4
120°	222.4	250.9	323.9	398.1	475.6	513.3	549.8	619.4	684.4	741.4	792.7
122.5°	238.4	264.6	334.2	407.2	481.3	519.0	554.3	622.8	686.6	742.5	792.7
125°	253.2	276.0	343.3	414.0	484.8	521.3	555.5	622.8	685.5	740.3	790.4
127.5°	266.9	288.6	350.2	420.9	487.0	522.4	555.5	620.5	683.2	736.8	785.9
130°	280.6	300.0	357.0	424.3	489.3	521.3	553.2	615.9	677.5	731.1	777.9
132.5°	294.3	312.5	362.7	427.7	490.5	521.3	550.9	611.4	670.7	723.1	767.6
135°	306.8	321.7	368.4	430.0	489.3	519.0	546.4	603.4	660.4	711.7	755.1
137.5°	318.2	330.8	373.0	431.2	488.2	515.6	542.9	594.3	647.9	698.1	740.3
140°	328.5	339.9	375.3	431.2	483.6	511.0	536.1	585.1	634.2	682.1	723.1
142.5°	337.6	347.9	378.7	428.9	479.1	505.3	529.2	576.0	620.5	666.1	706.0
145°	346.7	354.7	381.0	427.7	473.4	497.3	520.1	564.6	607.9	649.0	686.6
147.5°	353.6	361.6	383.2	423.2	466.5	488.2	509.9	552.1	592.0	630.8	665.0
150°	360.4	367.3	384.4	418.6	458.5	477.9	497.3	537.2	576.0	611.4	643.3
152.5°	367.3	371.8	387.8	414.0	449.4	467.7	487.0	522.4	557.8	590.8	621.6
155°	371.8	375.3	388.9	409.5	440.3	456.2	472.2	505.3	537.2	568.0	596.5
157.5°	376.4	379.8	390.1	406.1	430.0	444.8	458.5	487.0	516.7	544.1	570.3
160°	379.8	382.1	390.1	403.8	420.9	431.2	443.7	469.9	495.0	519.0	541.8
162.5°	383.2	384.4	390.1	400.4	412.9	419.7	428.9	449.4	472.2	492.7	513.3
165°	385.5	386.7	390.1	398.1	406.1	411.8	416.3	431.2	448.3	466.5	483.6
167.5°	387.8	387.8	390.1	395.8	400.4	403.8	407.2	415.2	426.6	440.3	452.8
170°	388.9	388.9	390.1	393.5	396.9	398.1	400.4	404.9	410.6	417.5	425.4
172.5°	388.9	388.9	388.9	391.2	392.4	392.4	392.4	394.7	398.1	402.6	406.1
175°	388.9	387.8	387.8	388.9	387.8	387.8	387.8	387.8	388.9	391.2	392.4
177.5°	388.9	387.8	386.7	386.7	385.5	385.5	384.4	384.4	384.4	384.4	384.4
180°	382.1	382.1	382.1	382.1	382.1	382.1	382.1	382.1	382.1	382.1	382.1



TEST NUMBER: P395747

CATALOG NUMBER: I3-UL-50L93050-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	252.1	252.1	252.1	252.1	252.1	252.1	252.1	252.1	252.1	252.1
2.5°	253.2	253.2	252.1	250.9	250.9	250.9	249.8	248.7	247.5	247.5
5°	253.2	253.2	252.1	252.1	252.1	252.1	250.9	250.9	249.8	249.8
7.5°	254.4	253.2	253.2	253.2	253.2	253.2	253.2	253.2	252.1	252.1
10°	254.4	254.4	254.4	254.4	254.4	254.4	254.4	254.4	254.4	254.4
12.5°	255.5	255.5	255.5	255.5	256.6	256.6	256.6	256.6	256.6	256.6
15°	255.5	256.6	257.8	257.8	257.8	258.9	258.9	258.9	258.9	258.9
17.5°	256.6	257.8	258.9	258.9	260.1	260.1	261.2	261.2	261.2	261.2
20°	256.6	257.8	258.9	260.1	261.2	261.2	262.3	263.5	263.5	262.3
22.5°	255.5	257.8	258.9	260.1	261.2	262.3	263.5	264.6	264.6	264.6
25°	254.4	256.6	258.9	261.2	261.2	262.3	264.6	264.6	264.6	264.6
27.5°	253.2	255.5	257.8	260.1	261.2	262.3	263.5	264.6	264.6	264.6
30°	250.9	254.4	256.6	258.9	260.1	261.2	262.3	263.5	263.5	263.5
32.5°	247.5	250.9	253.2	256.6	257.8	258.9	260.1	261.2	261.2	261.2
35°	244.1	247.5	249.8	253.2	254.4	255.5	257.8	257.8	258.9	258.9
37.5°	238.4	243.0	245.2	248.7	249.8	250.9	253.2	254.4	254.4	254.4
40°	232.7	237.2	239.5	243.0	244.1	245.2	247.5	248.7	249.8	249.8
42.5°	225.8	230.4	232.7	236.1	237.2	238.4	240.7	241.8	243.0	243.0
45°	219.0	222.4	224.7	228.1	230.4	230.4	232.7	233.8	235.0	235.0
47.5°	209.9	213.3	215.6	219.0	221.3	222.4	223.6	224.7	225.8	225.8
50°	199.6	203.0	206.5	208.7	211.0	211.0	213.3	214.4	215.6	215.6
52.5°	189.3	191.6	195.0	198.5	199.6	200.7	201.9	203.0	204.2	204.2
55°	177.9	180.2	183.6	185.9	187.1	188.2	189.3	190.5	191.6	191.6
57.5°	165.4	167.7	171.1	173.4	174.5	175.7	176.8	177.9	179.1	179.1
60°	151.7	154.0	157.4	159.7	160.8	160.8	163.1	164.2	164.2	164.2
62.5°	138.0	140.3	142.6	144.9	146.0	147.1	148.3	149.4	149.4	149.4
65°	124.3	126.6	128.9	130.0	131.2	131.2	132.3	133.5	134.6	134.6
67.5°	109.5	111.8	114.1	115.2	116.3	116.3	117.5	118.6	118.6	118.6
70°	94.7	95.8	98.1	99.2	100.4	100.4	102.7	102.7	102.7	102.7
72.5°	79.8	81.0	83.3	84.4	85.5	85.5	86.7	87.8	87.8	87.8
75°	66.2	67.3	68.4	70.7	70.7	70.7	71.9	73.0	73.0	73.0
77.5°	52.5	53.6	54.7	55.9	57.0	57.0	58.2	59.3	59.3	59.3
80°	39.9	41.1	42.2	43.3	43.3	44.5	44.5	45.6	45.6	45.6
82.5°	28.5	29.7	30.8	31.9	33.1	33.1	34.2	35.4	35.4	34.2
85°	19.4	21.7	22.8	24.0	24.0	24.0	25.1	26.2	26.2	25.1
87.5°	13.7	13.7	14.8	16.0	16.0	17.1	17.1	18.2	18.2	18.2
90°	8.0	8.0	9.1	9.1	10.3	10.3	10.3	11.4	11.4	11.4
92.5°	19.4	19.4	20.5	20.5	20.5	20.5	21.7	21.7	21.7	21.7
95°	207.6	93.5	78.7	47.9	45.6	39.9	38.8	39.9	39.9	38.8
97.5°	696.9	746.0	776.8	791.6	773.3	753.9	732.3	728.9	699.2	633.0
100°	751.7	790.4	828.1	854.3	864.6	873.7	894.2	906.8	912.5	918.2
102.5°	779.0	820.1	853.2	886.3	899.9	912.5	930.7	945.6	951.3	955.8
105°	803.0	845.2	881.7	911.3	923.9	935.3	953.6	967.2	977.5	978.6
107.5°	808.7	853.2	894.2	930.7	945.6	958.1	979.8	990.1	999.2	999.2
110°	819.0	861.2	898.8	931.9	946.7	961.5	984.3	1000.3	1009.4	1011.7





TEST NUMBER: P395747

CATALOG NUMBER: I3-UL-50L93050-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	826.9	870.3	905.6	938.7	951.3	965.0	986.6	1001.5	1009.4	1012.9
115°	833.8	876.0	911.3	942.1	955.8	969.5	991.2	1003.7	1012.9	1016.3
117.5°	838.4	879.4	914.8	943.3	958.1	969.5	990.1	1003.7	1012.9	1014.0
120°	839.5	880.6	914.8	943.3	955.8	968.4	988.9	1002.6	1011.7	1011.7
122.5°	839.5	879.4	913.6	941.0	952.4	963.8	983.2	999.2	1007.2	1007.2
125°	834.9	874.9	907.9	935.3	946.7	957.0	977.5	992.3	1000.3	1001.5
127.5°	828.1	866.9	899.9	927.3	938.7	947.8	969.5	983.2	991.2	992.3
130°	819.0	857.7	889.7	915.9	927.3	937.6	955.8	970.7	979.8	982.1
132.5°	808.7	845.2	877.1	902.2	913.6	922.8	941.0	955.8	963.8	967.2
135°	796.1	830.4	861.2	886.3	897.7	906.8	923.9	938.7	946.7	950.1
137.5°	780.2	813.3	842.9	868.0	878.3	887.4	904.5	918.2	925.0	929.6
140°	761.9	792.7	823.5	846.3	856.6	865.7	880.6	895.4	902.2	905.6
142.5°	742.5	773.3	800.7	823.5	832.6	841.8	856.6	870.3	877.1	878.3
145°	722.0	751.7	776.8	798.4	806.4	815.5	829.2	842.9	849.8	850.9
147.5°	699.2	726.6	750.5	771.1	780.2	787.0	799.6	812.1	819.0	820.1
150°	673.0	698.1	719.7	740.3	748.2	755.1	768.8	780.2	787.0	788.2
152.5°	647.9	671.8	690.1	708.3	716.3	723.1	734.6	746.0	752.8	753.9
155°	621.6	643.3	661.6	676.4	683.2	690.1	699.2	709.5	715.2	716.3
157.5°	594.3	614.8	630.8	644.4	651.3	657.0	665.0	674.1	677.5	679.8
160°	564.6	581.7	595.4	609.1	614.8	620.5	628.5	635.3	639.9	641.0
162.5°	532.7	547.5	558.9	571.4	574.9	579.4	587.4	594.3	597.7	598.8
165°	499.6	513.3	523.5	533.8	536.1	539.5	545.2	552.1	554.3	556.6
167.5°	466.5	477.9	484.8	493.9	497.3	499.6	505.3	509.9	512.1	513.3
170°	434.6	442.6	448.3	455.1	456.2	459.7	463.1	467.7	468.8	468.8
172.5°	409.5	412.9	416.3	418.6	419.7	420.9	423.2	424.3	424.3	424.3
175°	393.5	395.8	395.8	396.9	396.9	396.9	396.9	396.9	396.9	396.9
177.5°	384.4	384.4	384.4	383.2	383.2	383.2	383.2	382.1	382.1	382.1
180°	382.1	382.1	382.1	382.1	382.1	382.1	382.1	382.1	382.1	382.1

(END OF REPORT)