

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: P395706

Luminaire Tested: **I3-UL-40L83050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395706  
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-40L83050-1D-UNV-W2A-W-4 (3000K)  
Description: CORELITE I3, OPEN TOP  
4000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 3000K/5000K CCT, 80 CRI LEDS, TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3819.8 lumens  
Efficiency: N/A  
Efficacy: 137.4 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

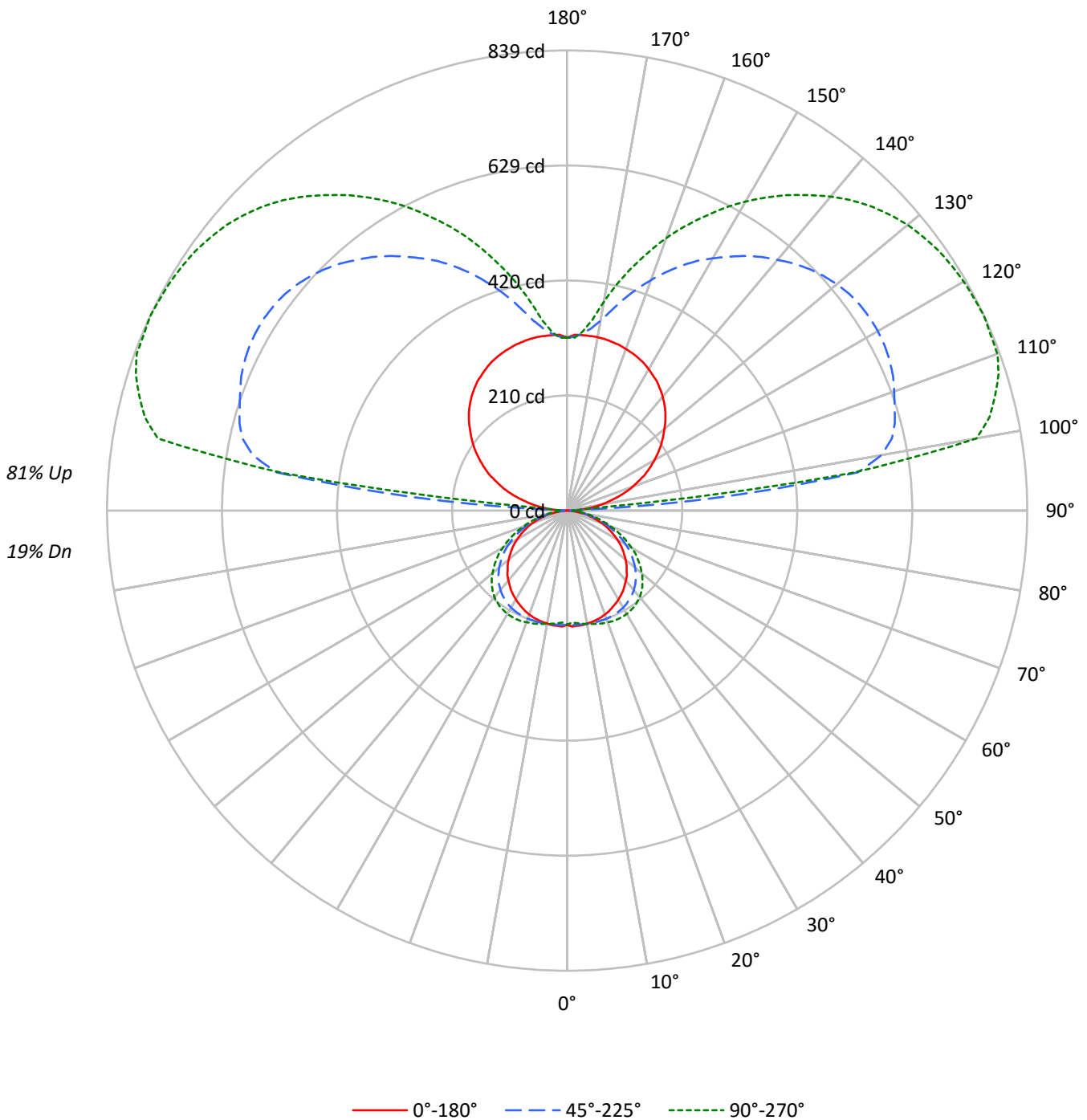
Input Watts (W): 27.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### 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	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°	1143	1143	1143
5°	1159	1127	1105
10°	1158	1119	1106
15°	1160	1115	1116
20°	1161	1119	1129
25°	1159	1122	1146
30°	1160	1124	1158
35°	1159	1118	1163
40°	1154	1110	1156
45°	1144	1087	1130
50°	1134	1051	1089
55°	1114	1000	1027
60°	1079	928	945
65°	1032	827	843
70°	976	717	710
75°	845	562	570
80°	673	404	413
85°	399	236	271



TEST NUMBER: P395706

CATALOG NUMBER: I3-UL-40L83050-1D-UNV-W2A-W-4 (3000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19.9	0.5
10°-20°	59.3	1.6
20°-30°	95.5	2.5
30°-40°	122.9	3.2
40°-50°	135.0	3.5
50°-60°	126.9	3.3
60°-70°	98.6	2.6
70°-80°	56.5	1.5
80°-90°	18.1	0.5
90°-100°	244.2	6.4
100°-110°	580.3	15.2
110°-120°	582.9	15.3
120°-130°	534.6	14.0
130°-140°	447.0	11.7
140°-150°	335.5	8.8
150°-160°	218.4	5.7
160°-170°	112.5	2.9
170°-180°	31.8	0.8
0°-30°	174.8	4.6
0°-40°	297.7	7.8
0°-60°	559.5	14.6
0°-90°	732.7	19.2
90°-120°	1407.4	36.8
90°-150°	2724.4	71.3
90°-180°	3087.0	80.8
0°-180°	3819.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	208	208	208	208	208	
5°	211	209	209	208	206	20
15°	206	205	210	213	214	58
25°	195	197	208	216	218	90
35°	178	183	198	210	214	111
45°	153	161	177	190	194	119
55°	123	130	144	154	158	110
65°	87	91	100	108	111	86
75°	46	48	53	58	60	49
85°	9	11	15	20	21	11
90°	1	3	6	8	9	3
95°	33	273	280	38	32	33
105°	95	366	618	762	808	101
115°	157	412	649	789	839	155
125°	209	430	652	781	826	187
135°	253	428	623	741	784	195
145°	286	410	567	666	702	179
155°	307	377	492	564	591	142
165°	318	340	399	442	459	90
175°	321	320	324	328	328	31
180°	315	315	315	315	315	



TEST NUMBER: P395706

CATALOG NUMBER: I3-UL-40L83050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0
2.5°	211.8	210.9	209.9	209.9	209.0	209.0	209.0	208.0	208.0	208.0	209.0
5°	210.9	210.9	209.9	209.0	209.0	209.0	208.0	208.0	208.0	208.0	209.0
7.5°	210.9	209.9	209.0	209.0	208.0	208.0	208.0	208.0	208.0	208.0	209.0
10°	209.0	209.0	208.0	208.0	207.1	208.0	208.0	208.0	208.0	208.0	209.9
12.5°	208.0	208.0	207.1	206.2	206.2	206.2	207.1	207.1	207.1	208.0	209.9
15°	206.2	206.2	205.2	205.2	205.2	205.2	206.2	206.2	207.1	208.0	209.9
17.5°	204.3	204.3	203.3	203.3	203.3	204.3	204.3	205.2	206.2	208.0	209.9
20°	201.5	201.5	201.5	201.5	201.5	202.4	202.4	203.3	205.2	207.1	209.9
22.5°	198.6	198.6	198.6	198.6	198.6	199.6	200.5	202.4	203.3	206.2	209.0
25°	194.9	194.9	194.9	194.9	195.8	196.8	197.7	199.6	201.5	204.3	208.0
27.5°	191.1	192.0	192.0	192.0	193.0	193.9	194.9	196.8	199.6	203.3	206.2
30°	187.3	187.3	187.3	188.3	189.2	190.2	192.0	193.9	196.8	200.5	204.3
32.5°	182.6	182.6	183.6	183.6	185.5	186.4	188.3	191.1	193.9	197.7	201.5
35°	177.9	177.9	177.9	179.8	180.7	182.6	183.6	186.4	190.2	193.9	197.7
37.5°	172.3	173.2	173.2	174.2	176.0	177.9	178.9	182.6	186.4	190.2	193.9
40°	166.6	167.6	167.6	168.5	171.3	172.3	174.2	177.9	180.7	185.5	189.2
42.5°	161.0	161.0	161.9	162.9	165.7	166.6	168.5	172.3	176.0	179.8	183.6
45°	153.4	154.4	155.3	156.3	159.1	161.0	162.9	165.7	169.5	173.2	177.0
47.5°	146.9	146.9	147.8	149.7	152.5	154.4	155.3	159.1	161.9	165.7	169.5
50°	139.3	140.3	140.3	142.2	145.0	146.9	147.8	151.6	154.4	158.2	161.9
52.5°	130.9	131.8	132.7	134.6	137.4	139.3	140.3	143.1	145.9	149.7	152.5
55°	123.3	124.3	124.3	126.1	129.0	129.9	131.8	133.7	137.4	140.3	144.0
57.5°	114.8	115.8	115.8	117.7	119.6	121.4	122.4	125.2	128.0	130.9	133.7
60°	105.4	106.4	107.3	108.3	110.1	112.0	113.0	114.8	117.7	120.5	123.3
62.5°	96.0	97.0	97.9	98.8	100.7	101.7	102.6	105.4	107.3	110.1	112.0
65°	86.6	87.5	88.5	89.4	90.4	91.3	92.3	94.1	96.0	98.8	99.8
67.5°	77.2	78.1	78.1	79.1	80.0	81.0	81.9	83.8	84.7	87.5	88.5
70°	67.8	67.8	67.8	68.7	68.7	69.7	70.6	72.5	73.4	75.3	77.2
72.5°	56.5	57.4	57.4	57.4	58.4	59.3	60.2	61.2	62.1	63.1	65.0
75°	46.1	47.1	46.1	47.1	48.0	48.0	49.0	49.9	50.8	51.8	52.7
77.5°	36.7	35.8	36.7	36.7	37.7	37.7	37.7	38.6	40.5	40.5	42.4
80°	26.4	26.4	26.4	26.4	27.3	27.3	28.2	28.2	30.1	31.1	32.0
82.5°	16.9	16.9	17.9	17.9	17.9	18.8	18.8	19.8	20.7	21.7	22.6
85°	9.4	9.4	9.4	10.4	10.4	11.3	11.3	12.2	13.2	14.1	15.1
87.5°	2.8	3.8	4.7	4.7	5.6	5.6	6.6	6.6	8.5	9.4	10.4
90°	0.9	0.9	1.9	1.9	1.9	2.8	2.8	3.8	3.8	4.7	5.6
92.5°	16.0	37.7	78.1	116.7	100.7	94.1	56.5	16.9	15.1	16.0	16.0
95°	32.9	62.1	113.9	184.5	239.1	273.0	295.6	338.9	383.1	375.6	280.5
97.5°	48.0	80.0	137.4	202.4	277.7	316.3	345.5	397.3	453.8	500.8	534.7
100°	63.1	96.0	157.2	225.0	294.7	329.5	363.4	434.0	489.5	536.6	581.8
102.5°	79.1	112.0	175.1	245.7	314.4	348.3	381.3	443.4	505.5	562.0	606.3
105°	95.1	129.0	191.1	263.6	332.3	366.2	398.2	457.5	514.9	567.7	618.5
107.5°	112.0	144.0	205.2	277.7	346.4	380.3	412.3	471.6	527.2	579.9	626.0
110°	127.1	158.2	219.3	290.9	359.6	393.5	425.5	484.8	539.4	589.3	634.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	141.2	171.3	232.5	302.2	370.0	403.9	434.9	494.2	548.8	597.8	643.0
115°	157.2	183.6	245.7	312.5	379.4	412.3	443.4	501.8	556.4	604.4	648.6
117.5°	170.4	195.8	257.0	321.0	386.9	418.9	449.0	507.4	561.1	609.1	652.4
120°	183.6	207.1	267.4	328.5	392.6	423.6	453.8	511.2	564.8	611.9	654.3
122.5°	196.8	218.4	275.8	336.1	397.3	428.3	457.5	514.0	566.7	612.8	654.3
125°	209.0	227.8	283.4	341.7	400.1	430.2	458.5	514.0	565.8	611.0	652.4
127.5°	220.3	238.2	289.0	347.4	402.0	431.2	458.5	512.1	563.9	608.1	648.6
130°	231.6	247.6	294.7	350.2	403.9	430.2	456.6	508.4	559.2	603.4	642.0
132.5°	242.9	257.9	299.4	353.0	404.8	430.2	454.7	504.6	553.5	596.8	633.6
135°	253.2	265.5	304.1	354.9	403.9	428.3	450.9	498.0	545.1	587.4	623.2
137.5°	262.6	273.0	307.8	355.8	402.9	425.5	448.1	490.5	534.7	576.1	611.0
140°	271.1	280.5	309.7	355.8	399.2	421.7	442.5	482.9	523.4	563.0	596.8
142.5°	278.7	287.1	312.5	354.0	395.4	417.0	436.8	475.4	512.1	549.8	582.7
145°	286.2	292.8	314.4	353.0	390.7	410.4	429.3	466.0	501.8	535.7	566.7
147.5°	291.8	298.4	316.3	349.3	385.0	402.9	420.8	455.6	488.6	520.6	548.8
150°	297.5	303.1	317.2	345.5	378.4	394.4	410.4	443.4	475.4	504.6	530.9
152.5°	303.1	306.9	320.1	341.7	370.9	386.0	402.0	431.2	460.3	487.6	513.1
155°	306.9	309.7	321.0	338.0	363.4	376.6	389.7	417.0	443.4	468.8	492.3
157.5°	310.7	313.5	322.0	335.1	354.9	367.1	378.4	402.0	426.5	449.0	470.7
160°	313.5	315.4	322.0	333.3	347.4	355.8	366.2	387.9	408.6	428.3	447.2
162.5°	316.3	317.2	322.0	330.4	340.8	346.4	354.0	370.9	389.7	406.7	423.6
165°	318.2	319.1	322.0	328.5	335.1	339.8	343.6	355.8	370.0	385.0	399.2
167.5°	320.1	320.1	322.0	326.7	330.4	333.3	336.1	342.7	352.1	363.4	373.7
170°	321.0	321.0	322.0	324.8	327.6	328.5	330.4	334.2	338.9	344.5	351.1
172.5°	321.0	321.0	321.0	322.9	323.8	323.8	323.8	325.7	328.5	332.3	335.1
175°	321.0	320.1	320.1	321.0	320.1	320.1	320.1	320.1	321.0	322.9	323.8
177.5°	321.0	320.1	319.1	319.1	318.2	318.2	317.2	317.2	317.2	317.2	317.2
180°	315.4	315.4	315.4	315.4	315.4	315.4	315.4	315.4	315.4	315.4	315.4



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0
2.5°	209.0	209.0	208.0	207.1	207.1	207.1	206.2	205.2	204.3	204.3
5°	209.0	209.0	208.0	208.0	208.0	208.0	207.1	207.1	206.2	206.2
7.5°	209.9	209.0	209.0	209.0	209.0	209.0	209.0	209.0	208.0	208.0
10°	209.9	209.9	209.9	209.9	209.9	209.9	209.9	209.9	209.9	209.9
12.5°	210.9	210.9	210.9	210.9	211.8	211.8	211.8	211.8	211.8	211.8
15°	210.9	211.8	212.8	212.8	212.8	213.7	213.7	213.7	213.7	213.7
17.5°	211.8	212.8	213.7	213.7	214.6	214.6	215.6	215.6	215.6	215.6
20°	211.8	212.8	213.7	214.6	215.6	215.6	216.5	217.5	217.5	216.5
22.5°	210.9	212.8	213.7	214.6	215.6	216.5	217.5	218.4	218.4	218.4
25°	209.9	211.8	213.7	215.6	215.6	216.5	218.4	218.4	218.4	218.4
27.5°	209.0	210.9	212.8	214.6	215.6	216.5	217.5	218.4	218.4	218.4
30°	207.1	209.9	211.8	213.7	214.6	215.6	216.5	217.5	217.5	217.5
32.5°	204.3	207.1	209.0	211.8	212.8	213.7	214.6	215.6	215.6	215.6
35°	201.5	204.3	206.2	209.0	209.9	210.9	212.8	212.8	213.7	213.7
37.5°	196.8	200.5	202.4	205.2	206.2	207.1	209.0	209.9	209.9	209.9
40°	192.0	195.8	197.7	200.5	201.5	202.4	204.3	205.2	206.2	206.2
42.5°	186.4	190.2	192.0	194.9	195.8	196.8	198.6	199.6	200.5	200.5
45°	180.7	183.6	185.5	188.3	190.2	190.2	192.0	193.0	193.9	193.9
47.5°	173.2	176.0	177.9	180.7	182.6	183.6	184.5	185.5	186.4	186.4
50°	164.7	167.6	170.4	172.3	174.2	174.2	176.0	177.0	177.9	177.9
52.5°	156.3	158.2	161.0	163.8	164.7	165.7	166.6	167.6	168.5	168.5
55°	146.9	148.7	151.6	153.4	154.4	155.3	156.3	157.2	158.2	158.2
57.5°	136.5	138.4	141.2	143.1	144.0	145.0	145.9	146.9	147.8	147.8
60°	125.2	127.1	129.9	131.8	132.7	132.7	134.6	135.6	135.6	135.6
62.5°	113.9	115.8	117.7	119.6	120.5	121.4	122.4	123.3	123.3	123.3
65°	102.6	104.5	106.4	107.3	108.3	108.3	109.2	110.1	111.1	111.1
67.5°	90.4	92.3	94.1	95.1	96.0	96.0	97.0	97.9	97.9	97.9
70°	78.1	79.1	81.0	81.9	82.8	82.8	84.7	84.7	84.7	84.7
72.5°	65.9	66.8	68.7	69.7	70.6	70.6	71.5	72.5	72.5	72.5
75°	54.6	55.5	56.5	58.4	58.4	58.4	59.3	60.2	60.2	60.2
77.5°	43.3	44.2	45.2	46.1	47.1	47.1	48.0	49.0	49.0	49.0
80°	32.9	33.9	34.8	35.8	35.8	36.7	36.7	37.7	37.7	37.7
82.5°	23.5	24.5	25.4	26.4	27.3	27.3	28.2	29.2	29.2	28.2
85°	16.0	17.9	18.8	19.8	19.8	19.8	20.7	21.7	21.7	20.7
87.5°	11.3	11.3	12.2	13.2	13.2	14.1	14.1	15.1	15.1	15.1
90°	6.6	6.6	7.5	7.5	8.5	8.5	8.5	9.4	9.4	9.4
92.5°	16.0	16.0	16.9	16.9	16.9	16.9	17.9	17.9	17.9	17.9
95°	171.3	77.2	65.0	39.5	37.7	32.9	32.0	32.9	32.9	32.0
97.5°	575.2	615.7	641.1	653.3	638.3	622.3	604.4	601.6	577.1	522.5
100°	620.4	652.4	683.5	705.1	713.6	721.1	738.1	748.4	753.1	757.8
102.5°	643.0	676.9	704.2	731.5	742.8	753.1	768.2	780.4	785.1	788.9
105°	662.7	697.6	727.7	752.2	762.5	771.9	787.0	798.3	806.8	807.7
107.5°	667.4	704.2	738.1	768.2	780.4	790.8	808.7	817.1	824.7	824.7
110°	675.9	710.8	741.8	769.1	781.4	793.6	812.4	825.6	833.1	835.0





TEST NUMBER: P395706

CATALOG NUMBER: I3-UL-40L83050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	682.5	718.3	747.5	774.8	785.1	796.4	814.3	826.5	833.1	836.0
115°	688.2	723.0	752.2	777.6	788.9	800.2	818.1	828.4	836.0	838.8
117.5°	691.9	725.8	755.0	778.5	790.8	800.2	817.1	828.4	836.0	836.9
120°	692.9	726.8	755.0	778.5	788.9	799.2	816.2	827.5	835.0	835.0
122.5°	692.9	725.8	754.1	776.6	786.1	795.5	811.5	824.7	831.3	831.3
125°	689.1	722.0	749.3	771.9	781.4	789.8	806.8	819.0	825.6	826.5
127.5°	683.5	715.5	742.8	765.4	774.8	782.3	800.2	811.5	818.1	819.0
130°	675.9	707.9	734.3	755.9	765.4	773.8	788.9	801.1	808.7	810.5
132.5°	667.4	697.6	723.9	744.6	754.1	761.6	776.6	788.9	795.5	798.3
135°	657.1	685.3	710.8	731.5	740.9	748.4	762.5	774.8	781.4	784.2
137.5°	643.9	671.2	695.7	716.4	724.9	732.4	746.5	757.8	763.5	767.2
140°	628.9	654.3	679.7	698.5	707.0	714.5	726.8	739.0	744.6	747.5
142.5°	612.8	638.3	660.9	679.7	687.2	694.7	707.0	718.3	723.9	724.9
145°	595.9	620.4	641.1	659.0	665.6	673.1	684.4	695.7	701.3	702.3
147.5°	577.1	599.7	619.4	636.4	643.9	649.6	659.9	670.3	675.9	676.9
150°	555.4	576.1	594.0	611.0	617.6	623.2	634.5	643.9	649.6	650.5
152.5°	534.7	554.5	569.5	584.6	591.2	596.8	606.3	615.7	621.3	622.3
155°	513.1	530.9	546.0	558.2	563.9	569.5	577.1	585.5	590.3	591.2
157.5°	490.5	507.4	520.6	531.9	537.5	542.2	548.8	556.4	559.2	561.1
160°	466.0	480.1	491.4	502.7	507.4	512.1	518.7	524.4	528.1	529.1
162.5°	439.6	451.9	461.3	471.6	474.5	478.2	484.8	490.5	493.3	494.2
165°	412.3	423.6	432.1	440.6	442.5	445.3	450.0	455.6	457.5	459.4
167.5°	385.0	394.4	400.1	407.6	410.4	412.3	417.0	420.8	422.7	423.6
170°	358.7	365.3	370.0	375.6	376.6	379.4	382.2	386.0	386.9	386.9
172.5°	338.0	340.8	343.6	345.5	346.4	347.4	349.3	350.2	350.2	350.2
175°	324.8	326.7	326.7	327.6	327.6	327.6	327.6	327.6	327.6	327.6
177.5°	317.2	317.2	317.2	316.3	316.3	316.3	316.3	315.4	315.4	315.4
180°	315.4	315.4	315.4	315.4	315.4	315.4	315.4	315.4	315.4	315.4

(END OF REPORT)