

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: P395707

Luminaire Tested: **I3-UL-40L83050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395707  
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 (3500K)  
Description: CORELITE I3, OPEN TOP  
4000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 3000K/5000K CCT, 80 CRI LEDS, TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4037.9 lumens  
Efficiency: N/A  
Efficacy: 144.7 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

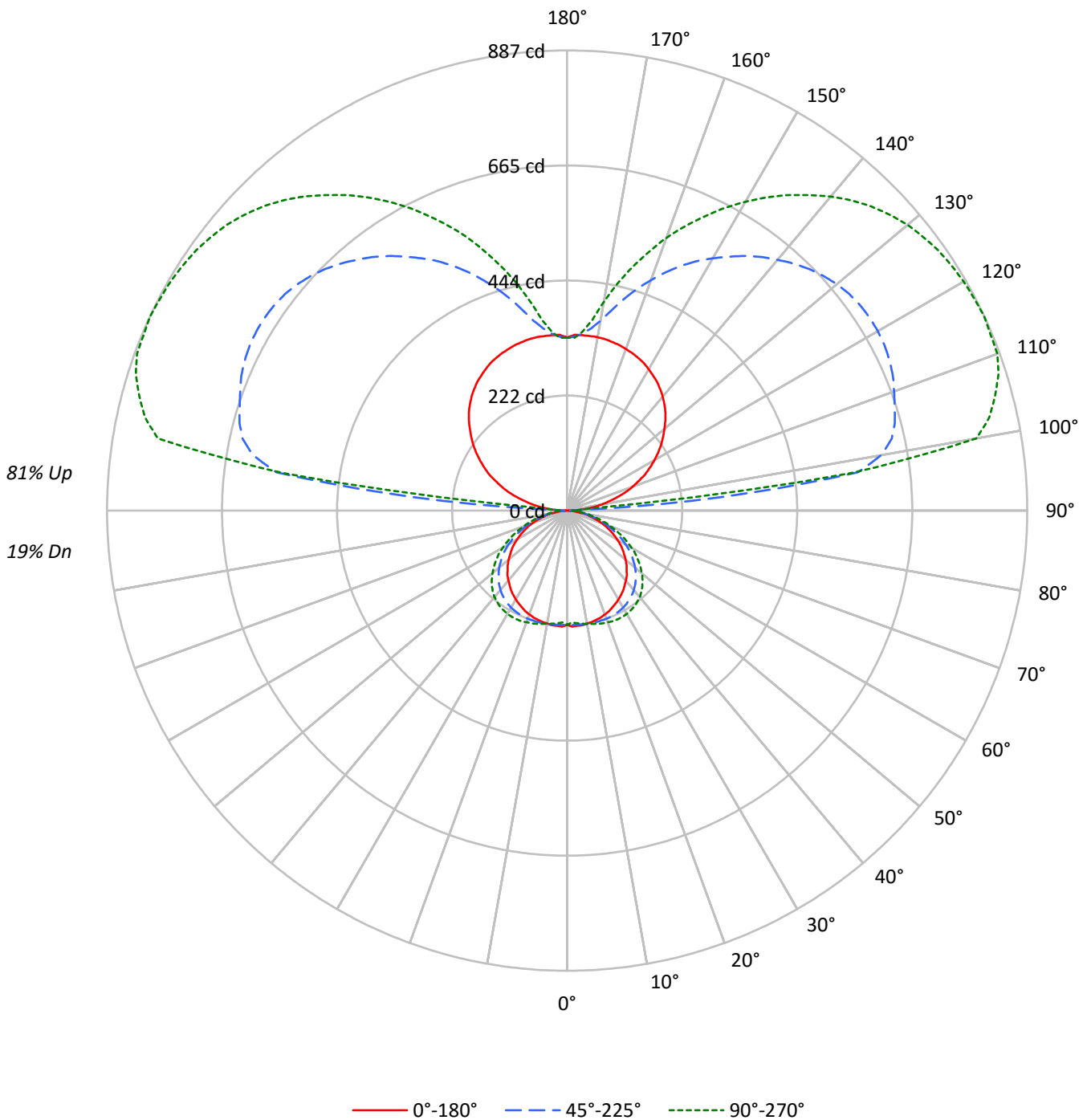
Input Watts (W): 27.9  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1209	1209	1209
5°	1225	1191	1168
10°	1224	1183	1170
15°	1226	1179	1180
20°	1227	1183	1194
25°	1225	1187	1212
30°	1227	1188	1224
35°	1226	1182	1229
40°	1220	1173	1222
45°	1209	1149	1195
50°	1199	1112	1151
55°	1178	1058	1085
60°	1142	982	999
65°	1092	874	890
70°	1030	758	752
75°	894	594	603
80°	711	427	436
85°	424	248	287



TEST NUMBER: P395707

CATALOG NUMBER: I3-UL-40L83050-1D-UNV-W2A-W-4 (3500K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	21.1	0.5
10°-20°	62.7	1.6
20°-30°	101.0	2.5
30°-40°	129.9	3.2
40°-50°	142.7	3.5
50°-60°	134.1	3.3
60°-70°	104.2	2.6
70°-80°	59.8	1.5
80°-90°	19.2	0.5
90°-100°	258.1	6.4
100°-110°	613.4	15.2
110°-120°	616.2	15.3
120°-130°	565.1	14.0
130°-140°	472.5	11.7
140°-150°	354.6	8.8
150°-160°	230.9	5.7
160°-170°	118.9	2.9
170°-180°	33.6	0.8
0°-30°	184.7	4.6
0°-40°	314.6	7.8
0°-60°	591.4	14.6
0°-90°	774.6	19.2
90°-120°	1487.7	36.8
90°-150°	2879.9	71.3
90°-180°	3263.0	80.8
0°-180°	4037.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	220	220	220	220	220	
5°	223	221	221	220	218	21
15°	218	217	222	225	226	62
25°	206	208	220	228	231	95
35°	188	193	209	222	226	118
45°	162	170	187	201	205	125
55°	130	137	152	163	167	116
65°	92	96	106	114	117	91
75°	49	51	56	62	64	52
85°	10	12	16	21	22	12
90°	1	3	6	9	10	3
95°	35	289	296	40	34	35
105°	100	387	654	806	854	106
115°	166	436	686	834	887	163
125°	221	455	690	826	874	197
135°	268	453	659	783	829	206
145°	302	434	599	704	742	189
155°	324	398	520	596	625	150
165°	336	359	422	468	486	95
175°	339	338	342	346	346	32
180°	333	333	333	333	333	



TEST NUMBER: P395707

CATALOG NUMBER: I3-UL-40L83050-1D-UNV-W2A-W-4 (3500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	219.9	219.9	219.9	219.9	219.9	219.9	219.9	219.9	219.9	219.9	219.9
2.5°	223.9	222.9	221.9	221.9	220.9	220.9	220.9	219.9	219.9	219.9	220.9
5°	222.9	222.9	221.9	220.9	220.9	220.9	219.9	219.9	219.9	219.9	220.9
7.5°	222.9	221.9	220.9	220.9	219.9	219.9	219.9	219.9	219.9	219.9	220.9
10°	220.9	220.9	219.9	219.9	218.9	219.9	219.9	219.9	219.9	219.9	221.9
12.5°	219.9	219.9	218.9	217.9	217.9	217.9	218.9	218.9	218.9	219.9	221.9
15°	217.9	217.9	216.9	216.9	216.9	216.9	217.9	217.9	218.9	219.9	221.9
17.5°	215.9	215.9	214.9	214.9	214.9	215.9	215.9	216.9	217.9	219.9	221.9
20°	213.0	213.0	213.0	213.0	213.0	214.0	214.0	214.9	216.9	218.9	221.9
22.5°	210.0	210.0	210.0	210.0	210.0	211.0	212.0	214.0	214.9	217.9	220.9
25°	206.0	206.0	206.0	206.0	207.0	208.0	209.0	211.0	213.0	215.9	219.9
27.5°	202.0	203.0	203.0	203.0	204.0	205.0	206.0	208.0	211.0	214.9	217.9
30°	198.0	198.0	198.0	199.0	200.0	201.0	203.0	205.0	208.0	212.0	215.9
32.5°	193.1	193.1	194.1	194.1	196.0	197.0	199.0	202.0	205.0	209.0	213.0
35°	188.1	188.1	188.1	190.1	191.1	193.1	194.1	197.0	201.0	205.0	209.0
37.5°	182.1	183.1	183.1	184.1	186.1	188.1	189.1	193.1	197.0	201.0	205.0
40°	176.1	177.1	177.1	178.1	181.1	182.1	184.1	188.1	191.1	196.0	200.0
42.5°	170.2	170.2	171.2	172.2	175.1	176.1	178.1	182.1	186.1	190.1	194.1
45°	162.2	163.2	164.2	165.2	168.2	170.2	172.2	175.1	179.1	183.1	187.1
47.5°	155.2	155.2	156.2	158.2	161.2	163.2	164.2	168.2	171.2	175.1	179.1
50°	147.3	148.3	148.3	150.3	153.3	155.2	156.2	160.2	163.2	167.2	171.2
52.5°	138.3	139.3	140.3	142.3	145.3	147.3	148.3	151.3	154.2	158.2	161.2
55°	130.4	131.4	131.4	133.3	136.3	137.3	139.3	141.3	145.3	148.3	152.3
57.5°	121.4	122.4	122.4	124.4	126.4	128.4	129.4	132.4	135.3	138.3	141.3
60°	111.5	112.4	113.4	114.4	116.4	118.4	119.4	121.4	124.4	127.4	130.4
62.5°	101.5	102.5	103.5	104.5	106.5	107.5	108.5	111.5	113.4	116.4	118.4
65°	91.6	92.5	93.5	94.5	95.5	96.5	97.5	99.5	101.5	104.5	105.5
67.5°	81.6	82.6	82.6	83.6	84.6	85.6	86.6	88.6	89.6	92.5	93.5
70°	71.6	71.6	71.6	72.6	72.6	73.6	74.6	76.6	77.6	79.6	81.6
72.5°	59.7	60.7	60.7	60.7	61.7	62.7	63.7	64.7	65.7	66.7	68.7
75°	48.8	49.8	48.8	49.8	50.8	50.8	51.7	52.7	53.7	54.7	55.7
77.5°	38.8	37.8	38.8	38.8	39.8	39.8	39.8	40.8	42.8	42.8	44.8
80°	27.9	27.9	27.9	27.9	28.9	28.9	29.9	29.9	31.8	32.8	33.8
82.5°	17.9	17.9	18.9	18.9	18.9	19.9	19.9	20.9	21.9	22.9	23.9
85°	10.0	10.0	10.0	10.9	10.9	11.9	11.9	12.9	13.9	14.9	15.9
87.5°	3.0	4.0	5.0	5.0	6.0	6.0	7.0	7.0	9.0	10.0	10.9
90°	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	4.0	5.0	6.0
92.5°	16.9	39.8	82.6	123.4	106.5	99.5	59.7	17.9	15.9	16.9	16.9
95°	34.8	65.7	120.4	195.0	252.8	288.6	312.5	358.2	405.0	397.1	296.5
97.5°	50.8	84.6	145.3	214.0	293.6	334.4	365.2	419.9	479.7	529.4	565.2
100°	66.7	101.5	166.2	237.8	311.5	348.3	384.1	458.8	517.5	567.2	615.0
102.5°	83.6	118.4	185.1	259.7	332.4	368.2	403.0	468.7	534.4	594.1	640.9
105°	100.5	136.3	202.0	278.6	351.3	387.1	420.9	483.6	544.3	600.1	653.8
107.5°	118.4	152.3	216.9	293.6	366.2	402.0	435.9	498.6	557.3	613.0	661.8
110°	134.3	167.2	231.9	307.5	380.1	416.0	449.8	512.5	570.2	623.0	670.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	149.3	181.1	245.8	319.4	391.1	426.9	459.8	522.4	580.2	631.9	679.7
115°	166.2	194.1	259.7	330.4	401.0	435.9	468.7	530.4	588.1	638.9	685.6
117.5°	180.1	207.0	271.7	339.3	409.0	442.8	474.7	536.4	593.1	643.8	689.6
120°	194.1	218.9	282.6	347.3	415.0	447.8	479.7	540.4	597.1	646.8	691.6
122.5°	208.0	230.9	291.6	355.3	419.9	452.8	483.6	543.3	599.1	647.8	691.6
125°	220.9	240.8	299.5	361.2	422.9	454.8	484.6	543.3	598.1	645.8	689.6
127.5°	232.9	251.8	305.5	367.2	424.9	455.8	484.6	541.4	596.1	642.9	685.6
130°	244.8	261.7	311.5	370.2	426.9	454.8	482.6	537.4	591.1	637.9	678.7
132.5°	256.7	272.7	316.5	373.2	427.9	454.8	480.6	533.4	585.1	630.9	669.7
135°	267.7	280.6	321.4	375.2	426.9	452.8	476.7	526.4	576.2	621.0	658.8
137.5°	277.6	288.6	325.4	376.2	425.9	449.8	473.7	518.5	565.2	609.0	645.8
140°	286.6	296.5	327.4	376.2	421.9	445.8	467.7	510.5	553.3	595.1	630.9
142.5°	294.6	303.5	330.4	374.2	418.0	440.8	461.7	502.5	541.4	581.2	616.0
145°	302.5	309.5	332.4	373.2	413.0	433.9	453.8	492.6	530.4	566.2	599.1
147.5°	308.5	315.5	334.4	369.2	407.0	425.9	444.8	481.6	516.5	550.3	580.2
150°	314.5	320.4	335.4	365.2	400.0	417.0	433.9	468.7	502.5	533.4	561.3
152.5°	320.4	324.4	338.3	361.2	392.1	408.0	424.9	455.8	486.6	515.5	542.3
155°	324.4	327.4	339.3	357.3	384.1	398.1	412.0	440.8	468.7	495.6	520.5
157.5°	328.4	331.4	340.3	354.3	375.2	388.1	400.0	424.9	450.8	474.7	497.6
160°	331.4	333.4	340.3	352.3	367.2	376.2	387.1	410.0	431.9	452.8	472.7
162.5°	334.4	335.4	340.3	349.3	360.2	366.2	374.2	392.1	412.0	429.9	447.8
165°	336.4	337.3	340.3	347.3	354.3	359.2	363.2	376.2	391.1	407.0	421.9
167.5°	338.3	338.3	340.3	345.3	349.3	352.3	355.3	362.2	372.2	384.1	395.1
170°	339.3	339.3	340.3	343.3	346.3	347.3	349.3	353.3	358.2	364.2	371.2
172.5°	339.3	339.3	339.3	341.3	342.3	342.3	342.3	344.3	347.3	351.3	354.3
175°	339.3	338.3	338.3	339.3	338.3	338.3	338.3	338.3	339.3	341.3	342.3
177.5°	339.3	338.3	337.3	337.3	336.4	336.4	335.4	335.4	335.4	335.4	335.4
180°	333.4	333.4	333.4	333.4	333.4	333.4	333.4	333.4	333.4	333.4	333.4



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	219.9	219.9	219.9	219.9	219.9	219.9	219.9	219.9	219.9	219.9
2.5°	220.9	220.9	219.9	218.9	218.9	218.9	217.9	216.9	215.9	215.9
5°	220.9	220.9	219.9	219.9	219.9	219.9	218.9	218.9	217.9	217.9
7.5°	221.9	220.9	220.9	220.9	220.9	220.9	220.9	220.9	219.9	219.9
10°	221.9	221.9	221.9	221.9	221.9	221.9	221.9	221.9	221.9	221.9
12.5°	222.9	222.9	222.9	222.9	223.9	223.9	223.9	223.9	223.9	223.9
15°	222.9	223.9	224.9	224.9	224.9	225.9	225.9	225.9	225.9	225.9
17.5°	223.9	224.9	225.9	225.9	226.9	226.9	227.9	227.9	227.9	227.9
20°	223.9	224.9	225.9	226.9	227.9	227.9	228.9	229.9	229.9	228.9
22.5°	222.9	224.9	225.9	226.9	227.9	228.9	229.9	230.9	230.9	230.9
25°	221.9	223.9	225.9	227.9	227.9	228.9	230.9	230.9	230.9	230.9
27.5°	220.9	222.9	224.9	226.9	227.9	228.9	229.9	230.9	230.9	230.9
30°	218.9	221.9	223.9	225.9	226.9	227.9	228.9	229.9	229.9	229.9
32.5°	215.9	218.9	220.9	223.9	224.9	225.9	226.9	227.9	227.9	227.9
35°	213.0	215.9	217.9	220.9	221.9	222.9	224.9	224.9	225.9	225.9
37.5°	208.0	212.0	214.0	216.9	217.9	218.9	220.9	221.9	221.9	221.9
40°	203.0	207.0	209.0	212.0	213.0	214.0	215.9	216.9	217.9	217.9
42.5°	197.0	201.0	203.0	206.0	207.0	208.0	210.0	211.0	212.0	212.0
45°	191.1	194.1	196.0	199.0	201.0	201.0	203.0	204.0	205.0	205.0
47.5°	183.1	186.1	188.1	191.1	193.1	194.1	195.0	196.0	197.0	197.0
50°	174.1	177.1	180.1	182.1	184.1	184.1	186.1	187.1	188.1	188.1
52.5°	165.2	167.2	170.2	173.2	174.1	175.1	176.1	177.1	178.1	178.1
55°	155.2	157.2	160.2	162.2	163.2	164.2	165.2	166.2	167.2	167.2
57.5°	144.3	146.3	149.3	151.3	152.3	153.3	154.2	155.2	156.2	156.2
60°	132.4	134.3	137.3	139.3	140.3	140.3	142.3	143.3	143.3	143.3
62.5°	120.4	122.4	124.4	126.4	127.4	128.4	129.4	130.4	130.4	130.4
65°	108.5	110.5	112.4	113.4	114.4	114.4	115.4	116.4	117.4	117.4
67.5°	95.5	97.5	99.5	100.5	101.5	101.5	102.5	103.5	103.5	103.5
70°	82.6	83.6	85.6	86.6	87.6	87.6	89.6	89.6	89.6	89.6
72.5°	69.7	70.7	72.6	73.6	74.6	74.6	75.6	76.6	76.6	76.6
75°	57.7	58.7	59.7	61.7	61.7	61.7	62.7	63.7	63.7	63.7
77.5°	45.8	46.8	47.8	48.8	49.8	49.8	50.8	51.7	51.7	51.7
80°	34.8	35.8	36.8	37.8	37.8	38.8	38.8	39.8	39.8	39.8
82.5°	24.9	25.9	26.9	27.9	28.9	28.9	29.9	30.8	30.8	29.9
85°	16.9	18.9	19.9	20.9	20.9	20.9	21.9	22.9	22.9	21.9
87.5°	11.9	11.9	12.9	13.9	13.9	14.9	14.9	15.9	15.9	15.9
90°	7.0	7.0	8.0	8.0	9.0	9.0	9.0	10.0	10.0	10.0
92.5°	16.9	16.9	17.9	17.9	17.9	17.9	18.9	18.9	18.9	18.9
95°	181.1	81.6	68.7	41.8	39.8	34.8	33.8	34.8	34.8	33.8
97.5°	608.0	650.8	677.7	690.6	674.7	657.8	638.9	635.9	610.0	552.3
100°	655.8	689.6	722.5	745.4	754.3	762.3	780.2	791.1	796.1	801.1
102.5°	679.7	715.5	744.4	773.2	785.2	796.1	812.0	825.0	829.9	833.9
105°	700.6	737.4	769.2	795.1	806.1	816.0	831.9	843.9	852.8	853.8
107.5°	705.5	744.4	780.2	812.0	825.0	835.9	854.8	863.8	871.7	871.7
110°	714.5	751.3	784.2	813.0	826.0	838.9	858.8	872.7	880.7	882.7





TEST NUMBER: P395707

CATALOG NUMBER: I3-UL-40L83050-1D-UNV-W2A-W-4 (3500K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	721.5	759.3	790.1	819.0	829.9	841.9	860.8	873.7	880.7	883.7
115°	727.4	764.3	795.1	822.0	833.9	845.9	864.8	875.7	883.7	886.7
117.5°	731.4	767.2	798.1	823.0	835.9	845.9	863.8	875.7	883.7	884.7
120°	732.4	768.2	798.1	823.0	833.9	844.9	862.8	874.7	882.7	882.7
122.5°	732.4	767.2	797.1	821.0	830.9	840.9	857.8	871.7	878.7	878.7
125°	728.4	763.3	792.1	816.0	826.0	834.9	852.8	865.8	872.7	873.7
127.5°	722.5	756.3	785.2	809.0	819.0	827.0	845.9	857.8	864.8	865.8
130°	714.5	748.3	776.2	799.1	809.0	818.0	833.9	846.9	854.8	856.8
132.5°	705.5	737.4	765.3	787.1	797.1	805.1	821.0	833.9	840.9	843.9
135°	694.6	724.5	751.3	773.2	783.2	791.1	806.1	819.0	826.0	828.9
137.5°	680.7	709.5	735.4	757.3	766.3	774.2	789.1	801.1	807.1	811.0
140°	664.7	691.6	718.5	738.4	747.3	755.3	768.2	781.2	787.1	790.1
142.5°	647.8	674.7	698.6	718.5	726.4	734.4	747.3	759.3	765.3	766.3
145°	629.9	655.8	677.7	696.6	703.6	711.5	723.5	735.4	741.4	742.4
147.5°	610.0	633.9	654.8	672.7	680.7	686.6	697.6	708.5	714.5	715.5
150°	587.1	609.0	627.9	645.8	652.8	658.8	670.7	680.7	686.6	687.6
152.5°	565.2	586.1	602.1	618.0	624.9	630.9	640.9	650.8	656.8	657.8
155°	542.3	561.3	577.2	590.1	596.1	602.1	610.0	619.0	623.9	624.9
157.5°	518.5	536.4	550.3	562.2	568.2	573.2	580.2	588.1	591.1	593.1
160°	492.6	507.5	519.5	531.4	536.4	541.4	548.3	554.3	558.3	559.3
162.5°	464.7	477.7	487.6	498.6	501.5	505.5	512.5	518.5	521.4	522.4
165°	435.9	447.8	456.8	465.7	467.7	470.7	475.7	481.6	483.6	485.6
167.5°	407.0	417.0	422.9	430.9	433.9	435.9	440.8	444.8	446.8	447.8
170°	379.1	386.1	391.1	397.1	398.1	401.0	404.0	408.0	409.0	409.0
172.5°	357.3	360.2	363.2	365.2	366.2	367.2	369.2	370.2	370.2	370.2
175°	343.3	345.3	345.3	346.3	346.3	346.3	346.3	346.3	346.3	346.3
177.5°	335.4	335.4	335.4	334.4	334.4	334.4	334.4	333.4	333.4	333.4
180°	333.4	333.4	333.4	333.4	333.4	333.4	333.4	333.4	333.4	333.4

(END OF REPORT)