

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: P395745

Luminaire Tested: **I3-UL-50L93050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395745  
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 (3000K)  
Description: CORELITE I3, OPEN TOP  
5000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3922.4 lumens  
Efficiency: N/A  
Efficacy: 108.1 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

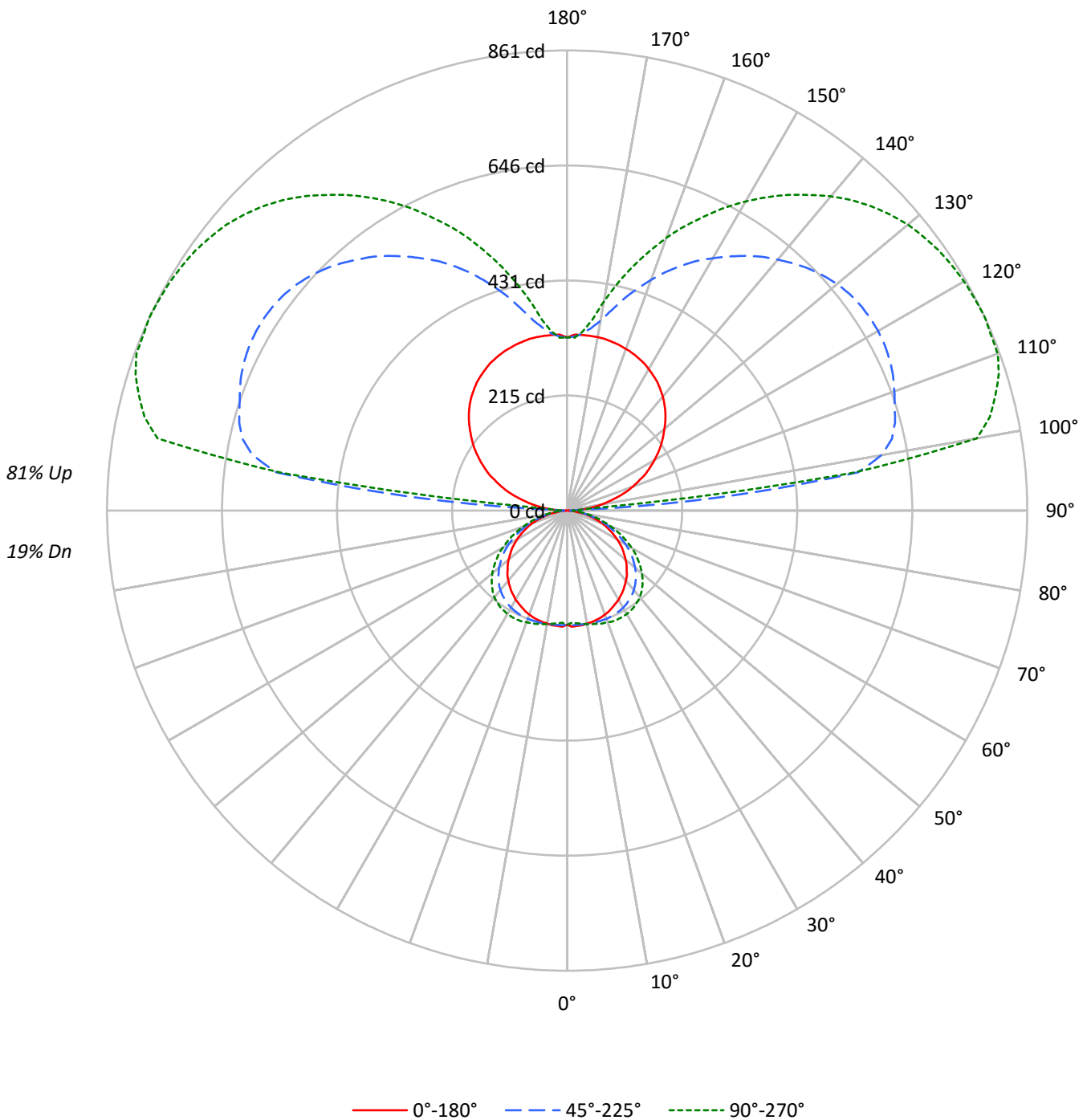
Input Watts (W): 36.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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CATALOG NUMBER: I3-UL-50L93050-1D-UNV-W2A-W-4 (3000K)

### Luminous Intensity Polar Plot





TEST NUMBER: P395745

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

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

	0°	45°	90°
0°	1174	1174	1174
5°	1190	1157	1135
10°	1189	1149	1137
15°	1191	1145	1146
20°	1192	1150	1160
25°	1190	1153	1177
30°	1192	1154	1189
35°	1190	1148	1194
40°	1185	1140	1187
45°	1175	1116	1161
50°	1165	1080	1118
55°	1144	1027	1054
60°	1109	953	970
65°	1060	849	865
70°	1001	737	730
75°	869	577	586
80°	691	415	424
85°	412	242	279



TEST NUMBER: P395745

CATALOG NUMBER: I3-UL-50L93050-1D-UNV-W2A-W-4 (3000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	20.5	0.5
10°-20°	60.9	1.6
20°-30°	98.1	2.5
30°-40°	126.2	3.2
40°-50°	138.6	3.5
50°-60°	130.3	3.3
60°-70°	101.2	2.6
70°-80°	58.1	1.5
80°-90°	18.6	0.5
90°-100°	250.7	6.4
100°-110°	595.8	15.2
110°-120°	598.6	15.3
120°-130°	548.9	14.0
130°-140°	459.0	11.7
140°-150°	344.5	8.8
150°-160°	224.3	5.7
160°-170°	115.5	2.9
170°-180°	32.7	0.8
0°-30°	179.5	4.6
0°-40°	305.6	7.8
0°-60°	574.5	14.6
0°-90°	752.4	19.2
90°-120°	1445.1	36.8
90°-150°	2797.6	71.3
90°-180°	3170.0	80.8
0°-180°	3922.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	214	214	214	214	214	
5°	216	215	215	214	212	21
15°	212	211	216	218	219	60
25°	200	202	214	221	224	92
35°	183	188	203	216	219	114
45°	158	165	182	195	199	122
55°	127	133	148	158	162	113
65°	89	94	102	111	114	88
75°	47	49	54	60	62	50
85°	10	12	16	20	21	11
90°	1	3	6	9	10	3
95°	34	280	288	39	33	34
105°	98	376	635	783	829	103
115°	161	423	666	810	861	159
125°	215	442	670	802	849	192
135°	260	440	640	761	805	200
145°	294	422	582	683	721	184
155°	315	387	506	579	607	145
165°	327	349	410	454	472	92
175°	330	329	332	336	336	31
180°	324	324	324	324	324	



TEST NUMBER: P395745

CATALOG NUMBER: I3-UL-50L93050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	213.6	213.6	213.6	213.6	213.6	213.6	213.6	213.6	213.6	213.6	213.6
2.5°	217.5	216.5	215.6	215.6	214.6	214.6	214.6	213.6	213.6	213.6	214.6
5°	216.5	216.5	215.6	214.6	214.6	214.6	213.6	213.6	213.6	213.6	214.6
7.5°	216.5	215.6	214.6	214.6	213.6	213.6	213.6	213.6	213.6	213.6	214.6
10°	214.6	214.6	213.6	213.6	212.7	213.6	213.6	213.6	213.6	213.6	215.6
12.5°	213.6	213.6	212.7	211.7	211.7	211.7	212.7	212.7	212.7	213.6	215.6
15°	211.7	211.7	210.7	210.7	210.7	210.7	211.7	211.7	212.7	213.6	215.6
17.5°	209.8	209.8	208.8	208.8	208.8	209.8	209.8	210.7	211.7	213.6	215.6
20°	206.9	206.9	206.9	206.9	206.9	207.8	207.8	208.8	210.7	212.7	215.6
22.5°	204.0	204.0	204.0	204.0	204.0	204.9	205.9	207.8	208.8	211.7	214.6
25°	200.1	200.1	200.1	200.1	201.1	202.0	203.0	204.9	206.9	209.8	213.6
27.5°	196.2	197.2	197.2	197.2	198.2	199.1	200.1	202.0	204.9	208.8	211.7
30°	192.4	192.4	192.4	193.3	194.3	195.3	197.2	199.1	202.0	205.9	209.8
32.5°	187.5	187.5	188.5	188.5	190.4	191.4	193.3	196.2	199.1	203.0	206.9
35°	182.7	182.7	182.7	184.6	185.6	187.5	188.5	191.4	195.3	199.1	203.0
37.5°	176.9	177.9	177.9	178.8	180.8	182.7	183.7	187.5	191.4	195.3	199.1
40°	171.1	172.1	172.1	173.0	175.9	176.9	178.8	182.7	185.6	190.4	194.3
42.5°	165.3	165.3	166.3	167.2	170.1	171.1	173.0	176.9	180.8	184.6	188.5
45°	157.6	158.5	159.5	160.5	163.4	165.3	167.2	170.1	174.0	177.9	181.7
47.5°	150.8	150.8	151.8	153.7	156.6	158.5	159.5	163.4	166.3	170.1	174.0
50°	143.1	144.0	144.0	146.0	148.9	150.8	151.8	155.6	158.5	162.4	166.3
52.5°	134.4	135.3	136.3	138.2	141.1	143.1	144.0	146.9	149.8	153.7	156.6
55°	126.6	127.6	127.6	129.5	132.4	133.4	135.3	137.3	141.1	144.0	147.9
57.5°	117.9	118.9	118.9	120.8	122.8	124.7	125.7	128.6	131.5	134.4	137.3
60°	108.3	109.2	110.2	111.2	113.1	115.0	116.0	117.9	120.8	123.7	126.6
62.5°	98.6	99.6	100.5	101.5	103.4	104.4	105.4	108.3	110.2	113.1	115.0
65°	88.9	89.9	90.9	91.8	92.8	93.8	94.7	96.7	98.6	101.5	102.5
67.5°	79.3	80.2	80.2	81.2	82.2	83.1	84.1	86.0	87.0	89.9	90.9
70°	69.6	69.6	69.6	70.6	70.6	71.5	72.5	74.4	75.4	77.3	79.3
72.5°	58.0	59.0	59.0	59.0	59.9	60.9	61.9	62.8	63.8	64.8	66.7
75°	47.4	48.3	47.4	48.3	49.3	49.3	50.3	51.2	52.2	53.2	54.1
77.5°	37.7	36.7	37.7	37.7	38.7	38.7	38.7	39.6	41.6	41.6	43.5
80°	27.1	27.1	27.1	27.1	28.0	28.0	29.0	29.0	30.9	31.9	32.9
82.5°	17.4	17.4	18.4	18.4	18.4	19.3	19.3	20.3	21.3	22.2	23.2
85°	9.7	9.7	9.7	10.6	10.6	11.6	11.6	12.6	13.5	14.5	15.5
87.5°	2.9	3.9	4.8	4.8	5.8	5.8	6.8	6.8	8.7	9.7	10.6
90°	1.0	1.0	1.9	1.9	1.9	2.9	2.9	3.9	3.9	4.8	5.8
92.5°	16.4	38.7	80.2	119.9	103.4	96.7	58.0	17.4	15.5	16.4	16.4
95°	33.8	63.8	117.0	189.5	245.5	280.3	303.5	348.0	393.4	385.7	288.1
97.5°	49.3	82.2	141.1	207.8	285.2	324.8	354.8	407.9	465.9	514.3	549.1
100°	64.8	98.6	161.4	231.0	302.6	338.3	373.1	445.6	502.7	551.0	597.4
102.5°	81.2	115.0	179.8	252.3	322.9	357.7	391.5	455.3	519.1	577.1	622.5
105°	97.6	132.4	196.2	270.7	341.2	376.0	408.9	469.8	528.8	582.9	635.1
107.5°	115.0	147.9	210.7	285.2	355.7	390.5	423.4	484.3	541.3	595.5	642.8
110°	130.5	162.4	225.2	298.7	369.3	404.1	436.9	497.8	553.9	605.1	651.5



TEST NUMBER: P395745

CATALOG NUMBER: I3-UL-50L93050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	145.0	175.9	238.8	310.3	379.9	414.7	446.6	507.5	563.6	613.8	660.2
115°	161.4	188.5	252.3	320.9	389.6	423.4	455.3	515.2	571.3	620.6	666.0
117.5°	175.0	201.1	263.9	329.6	397.3	430.2	461.1	521.0	576.1	625.4	669.9
120°	188.5	212.7	274.5	337.4	403.1	435.0	465.9	524.9	580.0	628.3	671.8
122.5°	202.0	224.3	283.2	345.1	407.9	439.8	469.8	527.8	581.9	629.3	671.8
125°	214.6	233.9	291.0	350.9	410.8	441.8	470.8	527.8	581.0	627.4	669.9
127.5°	226.2	244.6	296.8	356.7	412.8	442.7	470.8	525.9	579.0	624.5	666.0
130°	237.8	254.2	302.6	359.6	414.7	441.8	468.8	522.0	574.2	619.6	659.3
132.5°	249.4	264.9	307.4	362.5	415.7	441.8	466.9	518.1	568.4	612.9	650.6
135°	260.0	272.6	312.2	364.4	414.7	439.8	463.0	511.4	559.7	603.2	639.9
137.5°	269.7	280.3	316.1	365.4	413.7	436.9	460.1	503.6	549.1	591.6	627.4
140°	278.4	288.1	318.0	365.4	409.9	433.1	454.3	495.9	537.5	578.1	612.9
142.5°	286.1	294.8	320.9	363.5	406.0	428.2	448.5	488.2	525.9	564.5	598.4
145°	293.9	300.6	322.9	362.5	401.2	421.5	440.8	478.5	515.2	550.0	581.9
147.5°	299.7	306.4	324.8	358.6	395.4	413.7	432.1	467.9	501.7	534.6	563.6
150°	305.5	311.3	325.8	354.8	388.6	405.0	421.5	455.3	488.2	518.1	545.2
152.5°	311.3	315.1	328.7	350.9	380.9	396.3	412.8	442.7	472.7	500.7	526.8
155°	315.1	318.0	329.6	347.0	373.1	386.7	400.2	428.2	455.3	481.4	505.6
157.5°	319.0	321.9	330.6	344.1	364.4	377.0	388.6	412.8	437.9	461.1	483.3
160°	321.9	323.8	330.6	342.2	356.7	365.4	376.0	398.3	419.5	439.8	459.2
162.5°	324.8	325.8	330.6	339.3	349.9	355.7	363.5	380.9	400.2	417.6	435.0
165°	326.7	327.7	330.6	337.4	344.1	349.0	352.8	365.4	379.9	395.4	409.9
167.5°	328.7	328.7	330.6	335.4	339.3	342.2	345.1	351.9	361.5	373.1	383.8
170°	329.6	329.6	330.6	333.5	336.4	337.4	339.3	343.2	348.0	353.8	360.6
172.5°	329.6	329.6	329.6	331.6	332.5	332.5	332.5	334.5	337.4	341.2	344.1
175°	329.6	328.7	328.7	329.6	328.7	328.7	328.7	328.7	329.6	331.6	332.5
177.5°	329.6	328.7	327.7	327.7	326.7	326.7	325.8	325.8	325.8	325.8	325.8
180°	323.8	323.8	323.8	323.8	323.8	323.8	323.8	323.8	323.8	323.8	323.8



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CATALOG NUMBER: I3-UL-50L93050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	213.6	213.6	213.6	213.6	213.6	213.6	213.6	213.6	213.6	213.6
2.5°	214.6	214.6	213.6	212.7	212.7	212.7	211.7	210.7	209.8	209.8
5°	214.6	214.6	213.6	213.6	213.6	213.6	212.7	212.7	211.7	211.7
7.5°	215.6	214.6	214.6	214.6	214.6	214.6	214.6	214.6	213.6	213.6
10°	215.6	215.6	215.6	215.6	215.6	215.6	215.6	215.6	215.6	215.6
12.5°	216.5	216.5	216.5	216.5	217.5	217.5	217.5	217.5	217.5	217.5
15°	216.5	217.5	218.5	218.5	218.5	219.4	219.4	219.4	219.4	219.4
17.5°	217.5	218.5	219.4	219.4	220.4	220.4	221.4	221.4	221.4	221.4
20°	217.5	218.5	219.4	220.4	221.4	221.4	222.3	223.3	223.3	223.3
22.5°	216.5	218.5	219.4	220.4	221.4	222.3	223.3	224.3	224.3	224.3
25°	215.6	217.5	219.4	221.4	221.4	222.3	224.3	224.3	224.3	224.3
27.5°	214.6	216.5	218.5	220.4	221.4	222.3	223.3	224.3	224.3	224.3
30°	212.7	215.6	217.5	219.4	220.4	221.4	222.3	223.3	223.3	223.3
32.5°	209.8	212.7	214.6	217.5	218.5	219.4	220.4	221.4	221.4	221.4
35°	206.9	209.8	211.7	214.6	215.6	216.5	218.5	218.5	219.4	219.4
37.5°	202.0	205.9	207.8	210.7	211.7	212.7	214.6	215.6	215.6	215.6
40°	197.2	201.1	203.0	205.9	206.9	207.8	209.8	210.7	211.7	211.7
42.5°	191.4	195.3	197.2	200.1	201.1	202.0	204.0	204.9	205.9	205.9
45°	185.6	188.5	190.4	193.3	195.3	195.3	197.2	198.2	199.1	199.1
47.5°	177.9	180.8	182.7	185.6	187.5	188.5	189.5	190.4	191.4	191.4
50°	169.2	172.1	175.0	176.9	178.8	178.8	180.8	181.7	182.7	182.7
52.5°	160.5	162.4	165.3	168.2	169.2	170.1	171.1	172.1	173.0	173.0
55°	150.8	152.7	155.6	157.6	158.5	159.5	160.5	161.4	162.4	162.4
57.5°	140.2	142.1	145.0	146.9	147.9	148.9	149.8	150.8	151.8	151.8
60°	128.6	130.5	133.4	135.3	136.3	136.3	138.2	139.2	139.2	139.2
62.5°	117.0	118.9	120.8	122.8	123.7	124.7	125.7	126.6	126.6	126.6
65°	105.4	107.3	109.2	110.2	111.2	111.2	112.1	113.1	114.1	114.1
67.5°	92.8	94.7	96.7	97.6	98.6	98.6	99.6	100.5	100.5	100.5
70°	80.2	81.2	83.1	84.1	85.1	85.1	87.0	87.0	87.0	87.0
72.5°	67.7	68.6	70.6	71.5	72.5	72.5	73.5	74.4	74.4	74.4
75°	56.1	57.0	58.0	59.9	59.9	59.9	60.9	61.9	61.9	61.9
77.5°	44.5	45.4	46.4	47.4	48.3	48.3	49.3	50.3	50.3	50.3
80°	33.8	34.8	35.8	36.7	36.7	37.7	37.7	38.7	38.7	38.7
82.5°	24.2	25.1	26.1	27.1	28.0	28.0	29.0	30.0	30.0	29.0
85°	16.4	18.4	19.3	20.3	20.3	20.3	21.3	22.2	22.2	21.3
87.5°	11.6	11.6	12.6	13.5	13.5	14.5	14.5	15.5	15.5	15.5
90°	6.8	6.8	7.7	7.7	8.7	8.7	8.7	9.7	9.7	9.7
92.5°	16.4	16.4	17.4	17.4	17.4	17.4	18.4	18.4	18.4	18.4
95°	175.9	79.3	66.7	40.6	38.7	33.8	32.9	33.8	33.8	32.9
97.5°	590.6	632.2	658.3	670.9	655.4	639.0	620.6	617.7	592.6	536.5
100°	637.0	669.9	701.8	724.0	732.7	740.5	757.9	768.5	773.3	778.2
102.5°	660.2	695.0	723.1	751.1	762.7	773.3	788.8	801.4	806.2	810.1
105°	680.5	716.3	747.2	772.4	783.0	792.7	808.1	819.7	828.4	829.4
107.5°	685.4	723.1	757.9	788.8	801.4	812.0	830.4	839.1	846.8	846.8
110°	694.1	729.8	761.7	789.8	802.3	814.9	834.2	847.8	855.5	857.4





TEST NUMBER: P395745

CATALOG NUMBER: I3-UL-50L93050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	700.8	737.6	767.5	795.6	806.2	817.8	836.2	848.7	855.5	858.4
115°	706.6	742.4	772.4	798.5	810.1	821.7	840.0	850.7	858.4	861.3
117.5°	710.5	745.3	775.3	799.4	812.0	821.7	839.1	850.7	858.4	859.4
120°	711.5	746.3	775.3	799.4	810.1	820.7	838.1	849.7	857.4	857.4
122.5°	711.5	745.3	774.3	797.5	807.2	816.8	833.3	846.8	853.6	853.6
125°	707.6	741.4	769.5	792.7	802.3	811.0	828.4	841.0	847.8	848.7
127.5°	701.8	734.7	762.7	785.9	795.6	803.3	821.7	833.3	840.0	841.0
130°	694.1	726.9	754.0	776.2	785.9	794.6	810.1	822.6	830.4	832.3
132.5°	685.4	716.3	743.4	764.6	774.3	782.0	797.5	810.1	816.8	819.7
135°	674.7	703.7	729.8	751.1	760.8	768.5	783.0	795.6	802.3	805.2
137.5°	661.2	689.2	714.4	735.6	744.3	752.1	766.6	778.2	784.0	787.8
140°	645.7	671.8	697.9	717.3	726.0	733.7	746.3	758.8	764.6	767.5
142.5°	629.3	655.4	678.6	697.9	705.7	713.4	726.0	737.6	743.4	744.3
145°	611.9	637.0	658.3	676.7	683.4	691.2	702.8	714.4	720.2	721.1
147.5°	592.6	615.8	636.1	653.5	661.2	667.0	677.6	688.3	694.1	695.0
150°	570.3	591.6	610.0	627.4	634.1	639.9	651.5	661.2	667.0	668.0
152.5°	549.1	569.4	584.8	600.3	607.1	612.9	622.5	632.2	638.0	639.0
155°	526.8	545.2	560.7	573.2	579.0	584.8	592.6	601.3	606.1	607.1
157.5°	503.6	521.0	534.6	546.2	552.0	556.8	563.6	571.3	574.2	576.1
160°	478.5	493.0	504.6	516.2	521.0	525.9	532.6	538.4	542.3	543.3
162.5°	451.4	464.0	473.7	484.3	487.2	491.1	497.8	503.6	506.5	507.5
165°	423.4	435.0	443.7	452.4	454.3	457.2	462.1	467.9	469.8	471.7
167.5°	395.4	405.0	410.8	418.6	421.5	423.4	428.2	432.1	434.0	435.0
170°	368.3	375.1	379.9	385.7	386.7	389.6	392.5	396.3	397.3	397.3
172.5°	347.0	349.9	352.8	354.8	355.7	356.7	358.6	359.6	359.6	359.6
175°	333.5	335.4	335.4	336.4	336.4	336.4	336.4	336.4	336.4	336.4
177.5°	325.8	325.8	325.8	324.8	324.8	324.8	324.8	323.8	323.8	323.8
180°	323.8	323.8	323.8	323.8	323.8	323.8	323.8	323.8	323.8	323.8

(END OF REPORT)